202 Franklin Street, Olean

CATTARAUGUS COUNTY, NEW YORK

Final Engineering Report

NYSDEC Site Number: C905043

Prepared for:

Silence Dogood, LLC

211 Franklin Street

Olean, New York

Prepared by:

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NOVEMBER 2019

CERTIFICATIONS

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

I certify that the data submitted to the Department with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the Department.

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

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

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Timothy K. Hampton, of Day Environmental, Inc., 1563 Lyell Avenue, Rochester, New York, am certifying as Owner's Designated Site Representative for the site.

54081	11/13/2019	
NYS Professional Engineer #	Date	Signature

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LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
bgs	below ground surface
C&D	Construction and Demolition materials
CAMP	Community Air Monitoring Plan
CP	Commissioner Policy
DER-10	NYSDEC document titled *"DER-10, Technical Guidance for Site Investigation and Remediation"*
DOH	Department of Health
DUSR	Data Usability Summary Report
ECs/ICs	Engineering Controls / Institutional Controls
ELAP	Environmental Laboratory Accreditation Program
FER	Final Engineering Report
ft.	feet
GCM	Grossly Contaminated Media
GPS	Global Positioning System
GSA	Grain size analysis
HASP	Health and Safety Plan
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
OSHA	Federal Occupational Safety and Health Administration
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
PM-10	Particulate Matter less than 10 micrometers in size
ppm	parts per million
QAPP	Quality Assurance Project Plan
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RI/RAAWP	Remedial Investigation/Remedial Alternatives Analysis Work Plan
ROW	Right-of-Way
SCLs	Soil Cleanup Levels identified in the NYSDEC Commissioner's Policy (CP) 51 Soil Cleanup Guidance, dated October 21 2017
SCOs	Soil Cleanup Objectives identified in 6 NYCRR Part 375 dated December 14, 2006
Site	202 Franklin Street, Olean, New York
SMP	Site Management Plan

Acronym	Definition (continued)
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyate List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TICs	Tentatively Identified Compounds
TSDF	Treatment, Storage, Disposal Facility
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
µg/m3	micrograms per cubic meter

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

Silence Dogood, LLC entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) on May 22, 2014, to investigate and remediate a 5.159-acre property located in the City of Olean, New York (the Site). The property in the process of remediation as a Track 4 Restricted Commercial Use remedy.

The Site is located in the County of Cattaraugus, New York and is identified as Block 1 and Lot 3 on the Cattaraugus County Tax Map, Section 94.040. [Note: The boundaries of the site do not match the tax map boundaries, but consists of a portion of Lot 3. Specifically, an approximate 3.24-acre area located on the eastern portion of Lot 3, developed as an athletic field, is not part of the Site.] The boundaries of the Site are fully described in Appendix A: Site Survey Map. The site is situated on an approximately 5.159-acre area bounded by the Interstate I-86 right-of-way (ROW) to the north, Franklin Street to the south, an athletic field to the east, and a railroad ROW to the west (see Figure 1).

An electronic copy of this FER with all supporting documentation is included as Appendix B.

2.0 SUMMARY OF SITE REMEDY

2.1 REMEDIAL ACTION OBJECTIVES

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.

RAOs for Environmental Protection

- Restore ground water aquifer, to the extent practicable, to pre-disposal/pre-release conditions.
- Remove the source of ground or surface water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.2 DESCRIPTION OF SELECTED REMEDY

The Site is in the process of remediation in accordance with the remedy selected by the NYSDEC in the Decision Document dated August 31, 2017 (the Decision Document). The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8.

The following are the components of the selected remedy:

1. A remedial design program, implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques to be implemented, to the extent

feasible, in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term; Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

2. Excavation and off-site disposal of contaminant source areas, including:

- an estimated 365 cubic yards of debris (soil/fill, ballast, cinders, and sheet metal scraps);
- removal of the 8,000-gallon underground storage tank (UST) including associated piping and grossly contaminated media (GCM) around the UST that exceed the below referenced criteria;
    - grossly contaminated media (GCM), as defined in 6 NYCRR Part 375-1.2(u) including soils exhibiting photoionization detector (PID) readings above 100 parts per million (ppm); and
    - soils that create a nuisance condition as defined in Commissioner Policy CP-51 Section G.

3. Backfill

- on-site soil that does not exceed the above excavation criteria was used beneath the cover system described in remedy element 4 below to backfill excavations to the extent that a sufficient volume of on-site soil was available, and/or:
- clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to replace the excavated soil or complete the backfilling of the excavation and establish the designed grades at the site to accommodate a site cover.

4. A cover was installed to allow for commercial use of the Site in areas where the upper one foot of exposed surface contained concentrations of various contaminants that exceeded the applicable Soil Cleanup Objectives (SCOs). The cover at the Site consists of paved surface parking areas, sidewalks, or a soil cover. Where a soil cover was used it was placed and compacted such that minimum of one foot of soil cover was installed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer (i.e., except in locations where 1-foot of #2 and #3 size DER-10 approved stone was placed to enhance surface drainage resulting from runoff of the asphalt-paved parking lot. Soil cover material, including any fill material brought to the Site, meets the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

5. Imposition of an institutional control in the form of an environmental easement for the controlled property which :

- requires the remedial party or Site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allows the use and development of the controlled property for commercial use or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or County DOH; and
- requires compliance with the Department approved Site Management Plan.

6. A Site Management Plan (SMP) was developed and will be implemented. This SMP includes the following:

a. An Institutional and Engineering Control Plan that identifies use restrictions and engineering controls for the Site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

- Institutional Controls: The Environmental Easement discussed in remedy element 5 above
- Engineering Controls: The soil cover discussed in remedy element 4 above.

The SMP includes, but is not be limited to:

- an Excavation Plan that details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use, groundwater, and surface water use restrictions;
- a provision that should the parking lot be removed in the future, a cover system consistent with that described in remedy element 4 above will be placed in any areas where the upper one foot of exposed surface soil contains contaminant concentrations that exceed the applicable SCOs;
- provisions for the management and inspection of the identified engineering controls;
- maintaining site access controls and NYSDEC notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to, monitoring of groundwater to assess the performance and effectiveness of the remedy; and a schedule of monitoring and frequency of submittals to the NYSDEC.

3.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the following NYSDEC-approved Work Plans:

- Remedial Action Work Plan (RAWP), 202 Franklin Street, Olean, New York, NYSDEC Site C905043, dated August 2017; and
- RAWP Addendum, 202 Franklin Street, Olean, New York, NYSDEC Site C905043, dated July 17, 2019.

Significant deviations from the RAWP and RAWP Addendum are noted in Section 3.8.

3.1 GOVERNING DOCUMENTS

The applicable governing plans that were adhered to during execution of the RAWP are described below.

3.1.1 Site Specific Health & Safety Plan (HASP)

The remedial work performed under this Remedial Action was in compliance with governmental requirements, including Site and worker safety requirements mandated by Federal Occupational Safety and Health Administration (OSHA). The HASP, included as Appendix A of the approved Remedial Investigation/Remedial Alternatives Analysis Work Plan (RI/RAAWP) for the Site, dated May 2014, was complied with for the remedial and invasive work performed at the Site.

3.1.2 Quality Assurance Project Plan (QAPP)

The NYSDEC approved QAPP was included as Appendix B of the RI/RAAWP. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

3.1.3 Community Air Monitoring Plan (CAMP)

A Community Air Monitoring Plan (CAMP) is included as part of the HASP described above, and the CAMP was implemented during completion of remedial activities that had the potential to disturb contaminated soil or fill material. The intent of the CAMP was to provide a measure of protection for the downwind community (i.e., off-site receptors including residences/businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of project

activities. The CAMP included real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when activities were completed that had the potential to release environmentally impacted materials. This CAMP was based on the NYSDOH Generic CAMP included as Appendix 1A of the NYSDEC document titled *"DER-10, Technical Guidance for Site Investigation and Remediation"* dated May 2010 (DER-10).

VOC monitoring was completed using a RAE Systems model *Mini RAE 3000* PID that utilizes a 10.7 eV bulb. Particulate monitoring was completed using a Thermo Scientific model *Personal DataRAM™ PDR-1000AN*.

The following action levels and response measures were utilized during air monitoring activities completed under the CAMP:

VOC Monitoring

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeded 5 ppm above background for the 15-minute average, work activities were to be temporarily halted and monitoring was to be continued. If the total organic vapor level readily decreased (per instantaneous readings) below 5 ppm over background, work activities could resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persisted at levels in excess of 5 ppm over background but less than 25 ppm, work activities were to be halted, the source or vapors identified, corrective actions were to be taken to abate emissions, and monitoring continued. After these steps, work activities could resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever was less (but in no case less than 20 feet), were below 5 ppm over background for the 15-minute average.
- If the organic vapor level were above 25 ppm at the perimeter of the work area, activities were to be shutdown.

Particulate Monitoring

- If the downwind PM-10 (i.e., particulate matter less than 10 micrometers in size) particulate level was 100 micrograms per cubic meter (µg/m3) greater than background (upwind perimeter) for a 15-minute period or if airborne dust was observed leaving the work area, then dust suppression techniques were to be

employed. Work could continue with dust suppression techniques provided that downwind PM-10 particulate levels did not exceed 150 µg/m3 above the upwind level and provided that no visible dust was migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels were greater than 150 µg/m3 above the upwind level, work was to stop and a re-evaluation of activities to be initiated. Work could resume provided that dust suppression measures and other controls were successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m3 of the upwind level and in preventing visible dust migration.

Note: The action levels outlined above were not exceeded during the Remedial Action activities described herein, including during the loading of waste soil/fill for transport to the disposal facility. The CAMP daily field data sheets are included in Appendix C and the results of the CAMP monitoring are discussed in Section 3.2.5 below.

3.2 REMEDIAL PROGRAM ELEMENTS

3.2.1 Contractors and Consultants

- ALS Environmental of Rochester, New York (ALS) - Analytical laboratory testing of soil samples for import to the Site (i.e., backfill, construction of soil cover, etc.)
- Ben Weitsman of Allegany, LLC in Allegany, New York (Ben Weitsman of Allegany) – Recycling and scrap facility that accepted the scrap UST removed from the Site.
- Cycle Chem. Inc. Facility in Lewisberry, Pennsylvania (Cycle Chem) – Treatment, Storage, Disposal Facility (TSDF) that disposed of liquid wastes generated during UST cleaning and removal.
- DAY Environmental, Inc. of Rochester, New York (DAY) – Certifying engineer responsible for remedial design, monitoring and documenting work completed, soil characterization sampling and testing coordination, and CAMP monitoring. DAY was onsite to complete observations, and required monitoring, during excavation, and other activities that had the potential to disturb materials containing concentrations of constituents that exceed SCOs. Following placement of the demarcation layer, DAY made intermittent progress checks and coordinated with SolEpoxy, Inc.

- D&H Excavating, Inc. of Arcade, NY (D&H Excavating) – Waste hauler for material generated at the Site that was disposed at the Chafee Landfill.
- eurofins Spectrum Analytical, Inc. of Agawam, Massachusetts (Spectrum) – Analytical laboratory testing of soil samples for waste characterization.
- Mike Canada Land Surveying of Olean, New York (MCLS) – Established Site boundaries, ground surface elevations, and monitoring well elevations.
- Paradigm Environmental Services, Inc. of Rochester, New York (Paradigm) – Analytical laboratory testing of liquid waste samples.
- Richard L. Peck Construction, Inc. of Allegany New York (RPC) – Provided gravel fill, site preparation including clearing and grubbing, compaction and grading, UST removal and transport, soil/fill excavation and backfill, soil/fill loading and staging, demarcation layer placement, and cover soil placement.
- SolEpoxy, Inc. of Olean New York (SolEpoxy) – Operator of the parking lot at the Site, contractor coordination, waste disposal coordination.
- Sun Environmental Corporation of Rochester, New York (SUN) – Responsible for UST cleaning and waste hauling of material generated at the Site that was disposed of at the Cycle Chem, Inc. facility.
- Waste Management Landfill in Chafee, New York (Chafee Landfill) –TSDF that disposed of soil/fill wastes removed from the Site.

3.2.2 Site Preparation

MCLS was onsite starting on September 7, 2017 to layout and mark the Site boundaries. The Site boundaries were marked with wood lath stakes that were driven into the ground along the Site boundary at turning points along the boundary of the Site, and at approximate 100 to 200-foot intervals between the turning points. [Note: MCLS returned in 2019, prior to the resumption of construction activities, to repeat the survey of the property line.]

RPC mobilized to the Site on September 7, 2017, to begin vegetation clearing and tree cutting activities. A skid-steer with brush cutting attachment was used to clear brush and field vegetation from the central portion of the Site north of the employee parking lot. Between September 11 and 13, 2017, trees located along the northwestern and northern edge of the Site were cut using chain saws, and chipped using a wood chipper. The wood chips were collected directly into tri-axel dump trucks, and transported off-site to the RPC contractor yard located at 3755 Birch Run Road, Allegany New York. Grubbing work, to

remove smaller trees, tree stumps and roots from the areas described above, was initiated by RPC on September 21, 2017. The stumps and roots were processed to remove as much soil as possible, and transported off-site to the RPC contractor yard located at 3755 Birch Run Road, Allegany New York.

Equipment utilized during the excavation and removal of the metal waste fill and the UST was brought to the Site by RPC on September 18, 2017. This work is described in Section 3.3.1 and 3.3.2 of this report. Equipment mobilized included a Dressta model TD-9H bulldozer, a Hitachi model L-60 excavator, and a Caterpillar model IT28F loader.

SUN mobilized to the Site on September 26, 2017 to prepare the UST for removal and subsequent disposal (i.e., recycling as scrap). This work is described in Section 3.3.1 of this report.

A Site safety meeting was held on September 20, 2017 to review portions of the HASP pertaining to the scope of work to be completed in the metal waste fill area and UST removal area. Representatives of DAY, RPC, and SolEpoxy were present for the meeting. In addition, representatives from DAY, RPC, SolEpoxy, SUN and NYSDEC met to discuss the tank removal work, prior to starting remedial activities on September 26, 2017.

Preparations to resume construction of the soil cover began on June 15, 2019. SolEpoxy representatives excavated test holes at regular intervals throughout the interim cover that was placed at the Site in October/November 2017 (i.e., to the depth of the demarcation fabric at the base of the material) to determine the thickness of the cover material. Grade stakes were placed in the test holes to mark the top of the demarcation fabric, and the test holes were subsequently backfilled with the excavation spoils. [Note: except by the insertion of the grade stakes described above, the demarcation layer was not penetrated during these activities.]

On July 10, 2019, RPC prepared portions of the Site for construction activities by mowing vegetation that had accumulated since 2017, using a Brush Hog.

On July 17, 2019, RPC began to stockpile import soil (refer to Section 3.5) at the Site for use in construction of the soil cover. RPC continued to import and stockpile soil at the Site intermittently through September 9, 2019.

Equipment utilized during the construction of the soil cover was brought to the Site by RPC starting on July 18, 2019. This work is described in Section 3.8 of this report. Equipment mobilized included a Dressta model TD-9H bulldozer, a Volvo model EC55B excavator, a John Deere model D151 excavator, a Takeuchi model TL 150 skid-steer loader and a Caterpillar D-Series model skid-steer loader.

3.2.3 General Site Controls

- **Site security** – Manufacturing operations at SolEpoxy, 211 Franklin Street (i.e., the adjacent property occupied by the manufacturer that operates the employee parking lot located on the Site) continued during the remedial program. Therefore, the existing protocols utilized by the manufacturer (e.g., overhead lighting in the parking lot, overnight security guards, etc.) were utilized for the Site security during the implementation of the remedial actions. In addition, excavations that were left open overnight were fenced/secured with a single or double row of construction fencing until such time as the excavations were backfilled and/or graded to remove fall hazards.

- **Job site record keeping** – During the implementation of the remedial program, SolEpoxy kept a log of contractors that were onsite to complete the various remedial actions. In addition, a DAY representative maintained a daily field log while at the Site to document activities (refer to Section 3.2.6).

- **Erosion and sedimentation controls** – Due to the relatively flat topography of the Site and the immediate vicinity, absence of storm drainage structures on the Site, and the distance of the Site to sensitive receptors, site-wide erosion and sedimentation controls were not needed during the implementation of the remedial actions. After rainfall events, DAY observed areas of recent fill placement to observe the condition of the cover and verify that no further controls were deemed necessary.

- **Soil screening results** - DAY observed/documented soil conditions (e.g., material type, evidence of potential environmental impact, etc.) and conducted PID screening during the soil removal activities for the UST and metal waste removals, and grading activities. The results of this monitoring are recorded in the daily field log (refer to Section 3.2.6).

- **Stockpile methods** – Soil/fill excavated from the Site as part of the metal waste fill removal and UST removal were stockpiled and subsequently removed for disposal at a regulated facility. Two distinct stockpiles, which were constructed for the metal waste fill removal starting on September 20, 2017; and the UST removal starting on September 26, 2017. These stockpiles were situated on the northeastern portion of the employee parking lot located on the Site (i.e., on an asphalt paved surface with no catch basins). These areas were prepared by covering the asphalt pavement with double layers of polyethylene sheeting (i.e., of 10 mils in thickness). To

preclude erosion/migration, the stockpiles were covered with polyethylene sheeting following the placement of soil/fill. The edges of the polyethylene sheeting were manipulated to prevent stormwater from migrating from the asphalt into the stockpile via sheet flow. The approximate locations of the stockpiles are depicted on Figure 2 and Figure 3.

- **Problems encountered** – No problems that had an impact on the remedial actions with respect to Site controls were encountered during the implementation of remedial activities.

3.2.4 Nuisance controls

- **Truck routing, truck wash, and egress housekeeping** – Trucks delivering imported soil to the Site and transporting stockpiled soils to a regulated facility for disposal were routed from public roadways directly onto and off asphalt paved areas, where these materials were stockpiled awaiting use/disposal, or onto compacted gravel fill that was placed as cover for the Site. Therefore, the trucks did not encounter or spread impacted soil/fill materials from the Site in such a manner that warranted a truck wash.
- **Dust control** – The potential for dust generation during intrusive activities competed during the implementation of the remedial actions was monitored by DAY as part of the CAMP, and the results are discussed in Section 3.2.5. Dust concentrations recorded during intrusive activities completed (e.g., grubbing, surface compaction, soil excavation, etc.) did not exceed action levels that warranted the implementation of dust control measures.
- **Odor control** – nuisance odors were not encountered during the implementation of the remedial actions.
- **Responding to complaints** – No complaints were received during the implementation of the remedial actions.

3.2.5 CAMP results

CAMP monitoring was completed by DAY during remedial activities that had the potential to disturb contaminated soil or fill material. CAMP monitoring was initiated on September 20, 2017 (i.e., start of excavation and removal activities in the metal waste fill area), and continued during working hours through September 28, 2017 (i.e., completion of the excavation and removal and stockpiling of the metal waste fill; excavation and removal of the UST and associated impacted soil, and grubbing work). CAMP monitoring completed

between September 20, 2017 and September 28, 2017 occurred at exterior locations at or near the Site perimeter.

CAMP monitoring was also completed to assess the potential for VOCs and/or fugitive particulate emissions associated with the following activities:

- On October 23, 2017, at the commencement of proof rolling/compaction activities, performed prior to construction of the interim soil cover over portions of the Site located to the north of the employee parking lot. [Note: due to the nature of the soil disturbance (i.e., at the ground surface only) with no excavation of potentially impacted soil/fill, it was not deemed necessary to monitor for VOCs on this date. Therefore, PID measurements were not collected on this date or recorded on the air monitoring report sheet included in Appendix C for October 23, 2017;
- On November 2, 2017, during limited grading work completed in conjunction with the construction of the interim soil cover over portions of the site located to the north of the employee parking lot. [Note: due to the nature of the soil disturbance (i.e., at the ground surface only) with no excavation of potentially impacted soil/fill, it was not deemed necessary to monitor for VOCs on this date. Therefore, PID measurements were not collected on this date or recorded on the air monitoring report sheet included in Appendix C for November 2, 2017.]
- On January 9, 2018 during loading of stockpiled soil/fill material into tri-axel dump trucks for transport to a regulated facility for disposal;
- Between July 30 and August 1, 2019 during excavation and grading work completed in conjunction with the construction of the soil cover over portions of the Site located to the east, south and west of the employee parking lot; and
- Between August 21 and August 22, 2019 during excavation and grading work completed in conjunction with the construction of a drainage channel on a portion of the Site located to the north of the employee parking lot.

The monitoring results, exceedance of action levels and response actions for CAMP monitoring completed between September 20, 2017 and January 9, 2018 are summarized below:

Monitoring Results:

- Particulate PM-10 measurements averaged over 15-minute periods ranged between 0 $\mu g/m^3$ and 52 $\mu g/m^3$. [Note: dense fog was present at the Site on September 20, upon arrival to the Site around 10:00 hrs.; September 21, upon arrival at the Site

until around 09:10hrs; September 22, upon arrival at the Site until around 10:10hrs; and September 25, upon arrival at the Site until around 10:10hrs. Particulate readings recorded over 15-minute periods during these hours were elevated, ranging between 29 μg/m^3 and 565 μg/m^3, and suspected to be the result of water vapor suspended in the air. After the fog cleared on the above dates, particulate readings recorded over 15-minute periods did not exceed 0.36 μg/m^3. Therefore, the particulate readings recorded during the foggy conditions are not identified as exceedance of action levels.]

- VOC measurements averaged over 15-minute periods ranged between 0.0 ppm and 0.2 ppm.

Action Levels: With the exception of the elevated particulate readings recorded between September 20 and 25, 2017, which are suspected to be the result of foggy conditions (see above), CAMP action levels were not exceeded.

Response Actions: Not applicable.

The monitoring results for CAMP monitoring completed between July 30, 2019 and August 22, 2019 are summarized below:

- Particulate PM-10 measurements averaged over 15-minute periods ranged between 0 μg/m^3 and 1 μg/m^3.
- VOC measurements averaged over 15-minute periods ranged between 0.0 ppm and 0.6 ppm.

CAMP action levels were not exceeded during the monitoring completed between July 30, 2019 and August 22, 2019 and subsequent response actions were not needed.

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

3.2.6 Reporting

Daily field notes, documenting the progress of the remedial actions, were prepared by a DAY representative while at the Site. A chronological summary of the daily field notes is included in Appendix C. A digital photo log and figures noting the work areas referred to in the daily field note summary are also included in electronic format in Appendix D.

3.3 CONTAMINATED MATERIALS REMOVAL

The selected remedy for the Site is a Track 4: Restricted use with site-specific soil cleanup objectives remedy. Specifically, the selected remedy is referred to as the Track 4 Restricted Commercial Use remedy. Two potential source areas of contamination were identified during the remedial investigation (RI) and were therefore included as part of the Remedy. The potential source areas of contamination were described in the RAWP as follows:

- Metal Waste Fill Area: an area generally located on the northeast portion of the Site, extending over approximately 6,540 square-feet, within which eleven "distinct" magnetic anomalies were identified during geophysical survey that was conducted as part of the RI. These "distinct" anomalies total an estimated 2,000 square feet. A test pit, which was advanced during the RI within one of the "distinct" anomalies, to assess the geophysical anomaly identified, encountered reworked soil containing large chunks of metal, rusted wire and bricks, extending from near the ground surface to an approximate depth of 1.5 feet (ft.) below ground surface (bgs). A sample of this fill was submitted for analytical laboratory testing and elevated heavy metal concentrations (i.e., exceeding Restricted Commercial SCO) of arsenic (25 ppm); barium (436 ppm), cadmium (16.3 ppm), copper (357 ppm), and lead (1,150 ppm) were detected.

- UST: an approximate 8,000 gallon capacity steel UST, encountered during the RI, adjacent to the southwestern corner of the Site and potentially impacted soil/fill material in the vicinity of the UST. The UST interior was observed via a fill port and, at the time of the RI, contained approximately 1 inch of clear liquid and residue that emitted an odor similar to rubbing alcohol. A sample of this material contained detectable concentrations of acetone and alcohol, and a maximum PID reading of 485.3 ppm was measured in the air space at the top of a pipe exiting the tank.

The purpose of the material removal was to eliminate potential sources of contamination from the Site prior to installation of the site-wide cover system. The sections below describe the removal, handling, and disposal of materials from the Site during the implementation of remedial actions. Figure 2 depicts the location of the area where the metal waste fill excavations were performed and Figure 3 depicts the location of the area where the UST excavation was performed.

3.3.1 Metal Waste Fill

Metal waste fill was removed from the subsurface at the Site between September 20 and 22, 2017. A DAY representative monitored and documented the work completed. The approximate areas from which the metal waste fill was removed (i.e., located in the northeast portion of the Site) are depicted on Figure 2.

On September 20, 2017, a DAY representative used a Trimble Geo XH global positioning system (GPS) unit to mark out the perimeter of a general area, extending over approximately 6,540 square-feet, located in the northeast portion of the Site (i.e., referred to as geophysical anomaly J in the RI). RPC used an excavator to strip the topsoil from this area to an approximate depth of 0.3 ft. bgs, and the topsoil was consolidated into a stockpile located approximately 50 feet to the south of the southern edge of the removal area. The DAY representative then used the GPS unit to mark out the perimeters of eleven "distinct" anomalies (herein referred to as Area 1 through Area 11) within the area that had been stripped of topsoil. The approximate locations of the general magnetic anomaly area and Area 1 through Area 11 are depicted on Figure 2.

Excavation in the vicinity of Area 1 and Area 2 was completed on September 20, 2017, starting at the northern edge of Area 1, followed by excavation of Area 2 before proceeding to the southern portion of Area 1. Waste materials encountered in the subsurface (i.e., starting below the stripped topsoil and extending to depths up to approximately 4 ft. bgs) were removed using an excavator. These materials included discolored (i.e., black) soil/fill, black vitrified fragments of apparent tar or plastic material, brick, iron bar, sheet metal, welded wire mesh, steel machinery components (e.g., gears), a rectangular steel open-top container (i.e., bin), and a 2 inch thick layer of ash, slag and cinders. The excavated material was placed directly into the bucket of a loader, transported to the northeast portion of the employee parking lot, and stockpiled on two layers of 10-mil thick poly sheeting. The limits of Area 1 and Area 2 were increased or modified in order to remove the metal waste fill encountered, and excavation advanced in depth and/or area until the metal waste fill was no longer observed in the sidewalls or base of the excavation. During excavation activities, portions of the materials excavated, excavation sidewalls, and the excavation base were screened using a PID. PID readings above background levels (i.e., 0.0 ppm to 0.2 ppm) were not measured in the areas screened.

Excavation in the vicinity of Area 3 through Area 8 was completed on September 21, 2017, starting with Area 6 and proceeding toward the southwest, then east. Waste materials encountered in the subsurface (i.e., starting below the stripped topsoil and extending to depths up to approximately 4.5 ft. bgs) were removed using an excavator. These materials

included discolored (i.e., black to rust colored) soil/fill, welded wire mesh, partially incinerated materials, black vitrified fragments of apparent tar or plastic material, steel cable, ash, and steel bar. The depths at which the top of the metal waste fill was encountered generally increased toward the north. Therefore, a 1 ft. to 2 ft. thick layer of 'clean' fill soil (i.e., that did not exhibit evidence of containing metal waste or produce readings above background levels in the ambient air when screened with a PID) was encountered above portions of the metal waste fill, starting at the ground surface and extending to the top of the metal waste fill layer. This material, where encountered, was stripped and used to backfill areas were removal activities had been completed, when practical. Excavation, removal, stockpiling, and screening activities completed on September 21, 2017 were conducted in a similar manner to that described above.

Excavation in the vicinity of Area 9 through Area 11 was completed on September 22, 2017, starting with Area 11 and proceeding toward the southwest. Waste materials encountered in the subsurface (i.e., starting below the stripped topsoil and extending to depths up to approximately 4.5 ft. bgs) where removed using an excavator. These materials included discolored (i.e., black or rust colored) soil/fill, sheet metal tabs (i.e., waste from an apparent stamping operation), brick, concrete, glass, a steel rail, a rail tie timber, apparent railroad bed ballast, partially incinerated materials, black vitrified fragments of apparent tar or plastic material, and steel cable. Excavation, removal, stockpiling, screening, and 'clean' soil stripping activities completed on September 22, 2017 were conducted in a similar manner to that described above.

The areal extent and approximate depth of the excavations competed between September 20 and 22, 2017 are depicted on Figure 2.

3.3.1.1 Disposal Details

On September 29, 2017, six representative soil/fill samples were collected from the waste stockpile that was generated from the metal waste fill excavations between September 20 and 22, 2017. A portion of each sample was placed in laboratory provided glassware for subsequent testing by Spectrum, a NYSDOH environmental laboratory accreditation program (ELAP)-certified laboratory. The six soil/fill samples were composited into two samples by Spectrum (i.e., 3:1 composite) and tested for semi-volatile organic compounds (SVOCs) plus tentatively identified compounds (TICs) using United States Environmental Protection Agency (USEPA) Method 8270, Resource Conservation and Recovery Act (RCRA)-list metals using various methods, pesticides using USEPA Method 8081, herbicides using USEPA Method 8151, total polychlorinated biphenyls (PCBs) using

USEPA Method 8082, ignitability using USEPA Method 1010, corrosivity using USEPA Method 9045, and reactivity using various methods. An extraction of each composite sample was also completed by Spectrum using the toxicity characteristic leaching procedure (TCLP) using USEPA Method 1311, and subsequently tested for RCRA-list metals using various methods. In addition, two discrete soil/fill samples (i.e., one representative soil/fill sample collected from the east side of the waste pile and one representative soil/fill sample collected from the west side of the waste pile) were tested for VOCs plus TICs using USEPA Method 8260.

SolEpoxy prepared waste profile #118494NY on behalf of Silence Dogood. This profile, including the results of the testing described above, was submitted to Waste Management, Inc., in Model City, New York (Waste Management) for approval.

At the request of Waste Management, six additional samples were collected on December 4, 2017 from the waste stockpile that was generated from the metal waste fill excavations between September 20 and 22, 2017. A portion of each sample was placed in laboratory provided glassware for subsequent testing by Spectrum. The six soil/fill samples were composited into two samples by Spectrum (i.e., 3:1 composite), and an extraction of each composite sample was also completed by Spectrum using the TCLP via USEPA Method 1311, and tested for SVOCs. The test results for the soil/fill samples collected on December 4, 2017 were transmitted to Waste Management via email on December 15, 2017.

Waste Management approved waste profile #118494NY on December 21, 2017.

On January 9, 2018, approximately 289 tons of soil/fill were transported to Waste Management's Chafee Landfill and disposed under Waste Management profile #118494NY. The soil/fill was transported from the Site to the Chafee landfill by D&H Excavating, a NYCRR Part 364 permitted waste hauler (permit #9A-834).

A copy of waste profile #118494NY (including the test results for the samples collected to characterize the waste) and the email notification by Waste Management Inc., indicating approval of waste profile #118494NY are included in Appendix E.

Manifests and landfill receipts are included in electronic format in Appendix E.

3.3.1.2 On-Site Reuse

Approximately 70 cubic yards of topsoil that was stripped from the surface of an approximate 6,540 square-foot area on the northeast portion of the Site and stockpiled on September 20, 2017 was re-used on the Site to backfill portions of the areas excavated

between September 20 and 22, 2017. Prior to re-use, the topsoil was evaluated, and it was determined not to exhibit evidence of containing metal waste or produce readings above background levels in the ambient air when screened with a PID.

An additional approximate 40 cubic yards of soil/fill that was stripped from between the ground surface and the top of the metal fill waste layer during excavation activities that were completed on September 21 and 22, 2017 (i.e., and was determined not to exhibit evidence of containing metal waste or produce readings above background levels in the ambient air when screened with a PID) was used to backfill portions of the areas excavated between September 20 and 22, 2017. Specifically, this material was placed into excavations in the vicinity of Area 2, the southern portion of Area 1, east of Area 5, and in the vicinity of Area 6.

3.3.2 UST and Soil/Fill Material Removal

An 8,000-gallon UST was removed from the subsurface at the Site between September 25 and 26, 2017. A DAY representative monitored and documented the work completed. The former location of UST (i.e., adjacent to the southwest corner of the employee parking lot at the Site) is depicted on Figure 3.

During the removal, a concrete foundation was encountered adjacent to the east of the UST. The west facing wall of the concrete foundation extended the approximate length of the UST (i.e., approximately 30 ft.) and to a depth of approximately 11 ft. bgs. The north facing wall was noted from ground surface, but not exposed during the UST removal. The western portion of the south facing wall was exposed during the removal of impacted soil, described below.

On September 25, 2017, RPC exposed the 8,000-gallon UST and associated piping, using an excavator and hand tools to remove soil/fill from the top, west sidewall, south end wall and north end wall of the UST. The end walls and west sidewall were exposed to the approximate vertical midpoint of the UST. An apparent vent pipe, constructed of steel and pinched off at the top, was encountered connected to a top flange on the southern portion of the UST. The vertical standpipe that was inserted into the center flange on the top of the UST at the time of the RI for the purpose of an access port was exposed. In addition, steel piping that exited the adjacent foundation wall was encountered/exposed. However, this piping was not connected to the UST at the time of the work described.

On September 26, 2017, SUN removed the piping from the top flanges (described above) and subsequently removed the residual liquid from the tank to the extent possible using a Cusco model Duravac 6.5’ diameter vacuum truck. Once the liquid contents were removed,

SUN used a pressure washer and potable water to clean the UST interior, and pumped out the wash liquids from the bottom of the UST using the vacuum truck. The liquids removed from the UST interior (i.e., product and cleaning fluids) was transferred from the vacuum truck into three New York State Department of Transportation (NYSDOT) approved, steel, 55-gallon drums, that were subsequently placed on and covered with 2 layers of 10-mil thick poly sheeting on the northeast portion of the employee parking lot (i.e., adjacent to the soil stockpile described below).

The UST was removed from the ground by RPC and observed and photographed by DAY (refer to the project photo log in Appendix D). An apparent product supply pipe was observed to be broken below a 90° elbow fitting that was affixed to the UST (i.e., located at the invert of the south end wall). [Note: during the subsequent soil removal (described below), the apparent product supply pipe was observed to extend approximately five feet to the east, where it turned 90° and entered the south face of the concrete foundation wall, approximately one foot above the elevation of the footer. When the apparent product supply pipe was disconnected from the concrete foundation wall, perched water flowed from the opening in the wall. The water did not exhibit evidence of impact (i.e., sheen, odor, discoloration, etc.).] Although the steel walls were observed to be covered by rust, and pitting was noted, no obvious holes or other areas of potential failure were noted in the UST exterior. The UST interior was examined following the removal of the UST from the subsurface, via an approximately 1.5' diameter hole that was cut into the northern end of the tank. The interior walls of the UST were observed to be rusty, however, solids (i.e., residual product, sludge, soil debris, etc.) were not observed within the interior of the UST. Therefore, additional cleaning of the UST interior was not performed.

After the tank was removed, a DAY representative observed the excavation floor and sidewalls of the excavation for evidence of impact (i.e., staining, petroleum or chemical type odors, free product, etc.) and screened soil samples collected from the excavation with a PID. Evidence of apparent impact was observed in the south end wall of the excavation, in the vicinity of the former location of the apparent product supply pipe described above. The impacts observed consisted of gray/black staining, chemical-type odors and a peak PID readings in excess of 500 ppm. In addition, a thin layer (i.e., approximately 0-1 ft. thick) of apparent fill material was observed below the UST, located approximately 10.5 ft. to 11.5 ft. bgs. This material was black in color, but did not emit an odor. PID readings over this material were not measured above background levels. [Note: based on its location and thickness, is suspected that this material was placed below the UST as a bedding layer

when the UST was installed, rather than the result of impacts from a release of the former UST contents.]

Between September 27 and 28, 2017, the 0-1 ft. thick layer of apparent tank bedding fill material was excavated and stockpiled on a double layer of 10-mil thick poly sheeting to await disposal at a regulated facility. In addition, apparently impacted soil located in the vicinity of the south end wall of the UST was excavated, to the extent possible, and added to the stockpile described above. Specifically this apparently impacted soil was removed from an area extending approximately 6.5 ft. to the south, southeast, and southwest of the south end wall of the former UST (refer to Figure 3); to a maximum depth of approximately 15.5 ft. bgs. The extent of the removal was determined by the DAY representative and the NYSDEC project manager based on observation of the impacted material in the excavation sidewalls and base (i.e., generally in the vicinity of, and extending away from, the apparent product pipe described above), the results of PID readings collected over spoils excavated from the impacted zone, and obstructions that limited the amount of material that could be removed. Specifically, the extent of the removal was limited by the proximity to the western property boundary and utilities located along Franklin Street, the concrete foundation wall, and the reach of the excavator bucket (i.e., to a maximum depth of approximately 15.5 ft. bgs). Excavation and removal of the impacted material continued, extending away from the apparent source (i.e., the apparent product pipe) until PID readings indicated the edge of the impact, or until further excavation was not practical, due to one or more of the limitations described above. Piping encountered during the excavation activities (i.e., extending from the concrete foundation wall) was disconnected and recycled as scrap.

Demarcation layers (i.e., orange plastic net fabric) were placed over the base and sidewalls to demarcate the furthest extent of excavation that was completed during the UST and impacted soil removals. In addition, a demarcation layer was placed in the southern portion of the excavation (i.e., generally to the south of the former position of the UST) at a depth of around 11 ft. bgs, for the purpose of marking the top of the impacted soil layer that was encountered. [Note: Confirmatory samples were collected from the sidewalls and base of the excavation on September 28, 2017 prior to placement of demarcation layers. Details regarding the collection and testing of confirmatory samples are included in Section 3.4.]

A Tank Closure Report, which includes details regarding the UST removed from the subsurface at the Site between September 25 and 29, 2017, is included as Appendix F. In addition, photographs of the UST removal are included in the Photo Log in Appendix D.

3.3.2.1 Disposal Details

3.3.2.1.1 UST and Piping

Reportedly on October 12, 2017, the cleaned UST was loaded onto a flatbed truck by RPC, and transported to Ben Weitsman of Allegany (i.e., a scrap metal processing facility) and recycled for scrap steel. Piping that was disconnected from the UST or concrete foundation wall during the UST removal (refer to Section 3.3.2) was placed in the metal scrap dumpster at the SolEpoxy facility and subsequently transported to Ben Weitsman of Allegany for recycling.

A copy of the receipt for the UST, issued by Ben Weitsman of Allegany is included in Appendix G.

3.3.2.1.2 Liquids Generated During UST Removal

A representative sample of liquids removed from the UST interior (i.e., product and cleaning fluids) was collected by SUN on September 26, 2017 and submitted to Paradigm, a NYSDOH ELAP-certified laboratory. The liquid sample was tested for flashpoint using USEPA Method 1010A. The results of the testing characterized the liquid waste a RCRA hazardous for disposal, as (D001) flammable liquid. Therefore, a temporary hazardous waste generator ID (NYR000233627) was obtained from the USEPA by SolEpoxy representatives. Reportedly on November 8 2017, SUN transported three 55-gallon drums of liquid waste to Cycle Chem., Inc. in Lewisberry, Pennsylvania for treatment/disposal.

A copy of the USEPA notification for waste generator ID NYR000233627, the test results for the sample collected to characterize the liquid waste, and the manifest completed for the transport and disposal of the 55-gallon drums containing the liquid waste are included in Appendix G.

3.3.2.1.3 Soil/Fill

On September 29, 2017, three representative soil/fill samples were collected from the UST excavation waste stockpile that was generated between September 27 and 28, 2017. A portion of each sample was placed in laboratory provided glassware for subsequent testing by Spectrum, a NYSDOH ELAP-certified laboratory. The three soil samples were composited into a single sample by Spectrum and tested for VOCs plus TICs using USEPA Method 8260, SVOCs plus TICs using USEPA Method 8270, RCRA-list metals using various methods, pesticides using USEPA Method 8081, herbicides using USEPA Method 8151, PCBs using USEPA Method 8082, ignitability using USEPA Method 1010, corrosivity using USEPA Method 9045, and reactivity using various methods.

SolEpoxy prepared waste profile #118496NY on behalf of Silence Dogood. This profile, including the results of the testing described above, was submitted to Waste Management, Inc., in Model City, New York for approval. Waste Management approved waste profile #118496NY on December 21, 2017.

On January 9, 2018, approximately 86 tons of soil/fill were transported to Waste Management's Chafee Landfill and disposed of under Waste Management profile #118496NY. The soil/fill was transported from the Site to the Chafee landfill by D&H Excavating.

A copy of waste profile #118496NY (including the test results for the samples collected to characterize the waste) and the email notification by Waste Management, indicating approval of waste profile #118496NY are included in Appendix E.

Manifests and landfill receipts are included in electronic format in Appendix E.

3.3.2.2 On-Site Reuse

Prior to the start of excavation work, an area with dimensions of approximately 50 ft. by 50 ft. and located adjacent to the east of the UST was lined with 10-mil thick poly sheeting, to be used as a stockpile area for soil/fill that did not exhibit evidence of impact, and could be re-used as backfill in the UST excavation. Each excavator bucket containing soil/fill spoils excavated from the UST area was screened by the DAY representative using a PID; and soil/fill that exhibited background level PID readings (i.e., 0.0 ppm to 0.2 ppm) was placed in this stockpile for re-use.

The UST excavation was backfilled in stages between September 28 and 29, 2017. On September 28, 2017, and with approval from the NYSDEC project manager, soil/fill spoils from the stockpile described above were used to partially backfill the northern and central portions of the UST excavation, following collection of confirmatory samples USTCS-1 through USTCS-6 (see below) and placement of a demarcation layer (i.e., orange plastic net fabric) to mark the furthest extent of excavation/removal from those areas. Overburden soil excavated from the zone located above the impacted soil that was removed on September 28, 2017 (i.e., from ground surface to approximately 11 ft. bgs in the vicinity of confirmatory samples USTEX-8 and UST-EX10, depicted on Figure 3) was also used to backfill the northern and central portions of the UST excavation, following screening with a PID. The remainder of the soil/fill spoils from the stockpile described above was used to backfill the southern/central portion of the UST excavation between September 28 and 29, 2017, following the completion of soil removal activities (refer to Section 3.3.2)

and placement of a demarcation layer (i.e., orange plastic net fabric) to mark the furthest extent of excavation/removal from those areas. Soil/fill spoil from the stockpile described above is present within the excavation footprint depicted on Figure 3, starting at depths between approximately 3 ft. and 6 ft. bgs, below a layer of import gravel material that is described in Section 3.5.

3.4 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

Following removal of the UST and impacted soil (refer to Section 3.3.2) confirmatory soil samples were collected from the UST excavation by a DAY representative. The sampling was competed in accordance with the procedures outlined in Section 3.13 of the RAWP and Section 5.5 of DER-10, as modified by request of the NYSDEC project manager at the time of sampling and conditions within the UST excavation at the time of sampling (refer to Section 3.9). Seven discrete soil samples (designated USTCS-1 through USTCS-7) were collected from the excavation floor following the removal of the UST and the 0-1 ft. thick layer of tank bedding fill. Samples USTCS-2, USTCS-4, USTCS-5 and USTCS-6 were spaced approximately 5 to 10 feet apart along the approximate centerline of the UST. Samples USTCS-1, USTCS-3 and USTCS-7 were collected from the northeast, northwest, and southwest corners of the excavation floor. Following the removal of impacted soil from the area located to the south of the UST, three additional soil samples (designated USTEX-8 through USTEX-10) were collected using the excavator bucket, to document the conditions of potentially impacted soil that was left in place. Soil sample USTEX-8 was collected from the south sidewall of the impacted soil removal excavation, soil sample USTEX-9 was collected from the base of the impacted soil removal excavation below the corner of the concrete foundation wall, and USTEX-9 was collected from the base of the eastern sidewall of the impacted soil removal excavation. The approximate sample locations are depicted on Figure 3.

The confirmatory soil samples collected were submitted to Spectrum. Each soil sample was tested for target compound list (TCL) VOCs plus TICs using USEPA Method 8260. Soil samples USTCS-1 through USTCS-4 were composited into a single sample by Spectrum and the 4:1 composite sample was designated USTCS-COMP by Spectrum. Soil samples USTCS-COMP, USTCS-5, USTCS-6 and USTCS-7 and USTEX-9 were also tested for alcohols using modified USEPA Method 8015. Soil samples USTCS-COMP, USTEX-9, USTEX-9, and USTEX-10 were also tested for TCL semi-SVOCs plus TICs using USEPA Method 8270, target analyte list (TAL) Metals (various methods), PCBs using USEPA

Method 8082 and organochloride pesticides using USEPA Method 8081. The analytical laboratory data package prepared by Spectrum is provided in Appendix H.

The results of the analytical testing are summarized on the following tables:

- Table 1 Summary of Detected TCL VOCs Plus TICs: Confirmatory Soil Samples
- Table 2 Summary of Detected TCL SVOCs Plus TICs: Confirmatory Soil Samples
- Table 3 Summary of Detected TAL Metals: Confirmatory Soil Samples

[Note: Alcohols using modified USEPA Method 8015, PCBs using USEPA Method 8082 and organochloride pesticides using USEPA Method 8081 were 'Not Detected' above the detection limits utilized by the analytical laboratory in the samples tested as part of this study. As such, summary tables for Alcohols, PCBs or Pesticides were not prepared.]

Each table includes comparisons of the concentrations of detected constituents to the Restricted Commercial SCOs. Table 1 and Table 2 also include soil cleanup levels (SCLs) identified in the NYSDEC Commissioner's Policy (CP) 51 Soil Cleanup Guidance, dated October 21 2017, for gasoline and/or fuel oil contaminated soils.

As shown on Table 1, TCL VOCs and TICs were not detected in confirmatory soil samples USTCS-1 through USTCS-4 at concentrations above the detection limits reported by the analytical laboratory. Acetone was detected in confirmatory soil samples USTCS-5, USTCS-6, USTCS-7, USTEX-9, and USTEX-10 at concentrations ranging between 0.0122 ppm (USTCS-5) and 0.755 ppm (USTCS-7), each below the Restricted Commercial Use SCO for acetone of 500 ppm. Ethanol was detected in confirmatory soil sample USTEX-8 at a concentration of 3.71 ppm; tert-butanol/butyl alcohol was detected in confirmatory soil sample USTEX-9 at a concentration of 0.593 ppm and carbon disulfide was detected in confirmatory soil samples USTEX-9 and USTEX-10 at concentrations of 0.0304ppm and 0.0122 ppm, respectively. [Note: to date, the NYSDEC has not published SCOs for ethanol, tert butanol/butyl alcohol, or carbon disulfide.] The petroleum related VOCs sec-butylbenzene, tert-butylbenzene, naphthalene, n-propylbenzene, and/or toluene were detected in one of more confirmatory sample. However the concentration of each these petroleum related VOCs was below its applicable SCL and Restricted Commercial Use SCO. TICs were detected in confirmatory soil samples USTEX-8, USTEX-9, and USTEX-10. Total TIC concentrations ranged between 0.029 ppm (USTEX-10) and 1.98 ppm (USTEX-8). [Note: to date, the NYSDEC has not published cleanup standards or guidance values for TICs.]

As shown on Table 2, composite soil sample USTCS-COMP contained detectable concentrations of 12 target list SVOCs (i.e., each of which, with the exception of phenol, are characterized as polyaromatic hydrocarbons or PAHs), including anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(g,h,i)perylene chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, phenol, and pyrene. Confirmatory soil sample USTEX-9 also contained detectable concentrations of fluoranthene and phenanthrene. The concentration of each SVOC detected in composite soil sample USTCS-COMP and confirmatory soil sample USTEX-9 was below its applicable SCL and Restricted Commercial Use SCO. TCL SVOCs were not detected in confirmatory soil samples USTEX-8 and USTEX-10 at concentrations above the detection limits reported by the analytical laboratory. TICs were detected in confirmatory soil samples USTEX-8 and USTEX-9. Total TIC concentrations were 0.430 ppm and 3.31 ppm, respectively. [Note: to date, the NYSDEC has not published cleanup standards or guidance values for TICs.]

As shown on Table 3, twenty TAL metals were detected in one or more of the confirmatory soil samples. However, each metal concentration reported is below the applicable Restricted Commercial Use SCO.

A Data Usability Summary Report (DUSR) was prepared for the confirmatory soil sample data generated in this remedial performance evaluation program. This DUSR is included in Appendix H.

3.5 IMPORTED BACKFILL

A gravel product (designated herein as gravel fill) originating from the Birch Run Gravel Pit located at 4581 Lower Birch Run Rd, Alleghany, New York, described as "*Sandy Gravel"* on the Particle Size Distribution Report completed for the material by GeoTech Engineering Services, Inc. of Morrisdale, Pennsylvania, and also described as "Sc. Bank Run" or "Bank Run" on bills of lading received from RPC, was approved by the NYSDEC for use as a fill material at the Site in an e-mail dated October 2, 2017. Documentation of the submittal to the NYSDEC for use of this material are included in Appendix I, including: (i) a copy of the GSA report referenced above; (ii) Test results for soil samples collected from the gravel pit at 4581 Lower Birch Run Rd; and (iii) agency approvals (i.e., email from the NYSDEC Project Manager).

The gravel fill was used to backfill source area excavations described in section 3.3, and placed and compacted with a vibratory roller as interim cover on portions of the Site as described below:

- Approximately 81 cubic yards of gravel fill was used to backfill the areas excavated between September 20 and 22, 2017 on the northeast portion of the property (refer to Section 3.2.1 and Figure 2). Fill thickness ranged between approximately 0.5 ft. and 3 ft.
- Approximately 108 cubic yards of gravel fill was used to backfill the areas excavated between September 25 and 28, 2017 on the western portion of the property (refer to Section 3.2.2 and Figure 3). Fill thickness ranged between approximately 3 ft. and 6 ft.
- Approximately 41 cubic yards of gravel fill was used in areas of subsidence encountered during proof rolling activities that were completed prior to placement of the interim soil cover (refer to Section 3.7). Fill thicknesses ranged up to approximately 1.5 ft.
- Approximately 2,754 cubic yards of gravel fill was placed over the demarcation layer fabric (refer to Section 3.7) over the approximate 107,350 sq. ft. area depicted on Figure 4. The thickness of the fill averaged up to approximately 0.7 ft.

Soil from a borrow area located at 4581 Lower Birch Run Rd, Alleghany, New York (i.e., Lower Birch Road soil), was sampled on June 19, 2019, delivered to ALS under chain-of-custody control, and tested in accordance with Section 5.4 (e) of DER-10. Specifically, five composite soil samples were tested for SVOCs plus TICs using USEPA Method 8270, TAL-list metals, using various methods, pesticides using USEPA Method 8081, PCBs using USEPA Method 8082 and PFAs using USEPA Method 537 modified. Thirteen discrete soil samples were tested for VOCs plus TICs using USEPA Method 8260. The results of the testing indicated that the Lower Birch Road soil was acceptable for use at the Site to construct the soil cover system. Test results for the Lower Birch Road soil samples are included in Appendix I. A summary of the compounds/analytes detected in the soil samples collected on June 19, 2019 are provided as Table 4 (detected VOCs and TICs), Table 5 (detected SVOC TICs), and Table 7 (TAL-list Metals). [Note: PCBs, Pesticides, and PFAs were not detected in the soil samples collected on June 19, 2019 at concentrations above the method detection limits indicated by the analytical laboratory. Thus, summary tables for these compounds have not been included in this report.]

Approximately 5,170 yd^3 of the Lower Birch Road soil was used to complete the soil cover system described in section 3.7, over the areas described below:

- Soil was placed over the demarcation layer fabric (refer to Section 3.8) over the approximate 7,350 sq. ft. area of the site that borders the south, east and western edges of the employee parking lot (i.e., depicted on Figure 5). The minimum thickness of the soil cover placed was 1.0 ft. [Note: an additional approximate 216 cubic yards of the Lower Birch Road soil was processed by RPC (i.e., to remove coarse aggregate material) and subsequently imported to the Site and placed as 'topsoil' over the approximate 7,350 sq. ft. area of the site that borders the south, east and western edges of the employee parking lot. Following completion of the cover construction, the 'topsoil' was seeded with grass seed to promote vegetative growth.]
- Soil was placed over the interim soil cover (refer to Section 3.7) to cover the approximate 107,350 sq. ft. area depicted on Figure 4. The thickness of the soil placed ranged between approximately 0.4 ft. and 0.8 ft. [i.e., to supplement the existing interim soil cover, measured on June 15, 2019 (refer to Section 3.2.2), and achieve a total of a minimum 1-foot thick soil cover over the approximate 107,350 sq. ft. area.]
- Soil was placed over the demarcation layer fabric (refer to Section 3.8) to cover the approximate 31,800 sq. ft. area located at the northeast corner of the Site. The minimum thickness of the soil cover placed was 1.0 ft.

Screened #2 and #3 Stone, originating from the Birch Run Gravel Pit located at 4581 Lower Birch Run Rd, Alleghany, New York, was approved by the NYSDEC in 2019 for use at the Site to construct a portion of the soil cover system. Documentation of the submittal to the NYSDEC for use of this material are included in Appendix I, including: (i) the Particle Size Distribution Report completed for the material by GeoTech Engineering Services, Inc. of Morrisdale, Pennsylvania; and (ii) agency approvals (i.e., email from the NYSDEC Project Manager dated August 29, 2019).

- Approximately 255 cubic yards of the #2 and #3 Stone was used to construct a portion of the drainage channel as part of the soil cover system, described in Section 3.8. The minimum thickness of the #2 and #3 Stone placed was 1.0 ft. above a demarcation layer.

Documentation for the import gravel, soil and stone materials are provided in Appendix I.

3.6 CONTAMINATION REMAINING AT THE SITE

The following sections describe contamination identified during the RI, which remains at the Site subsequent to the completion of remedial activities. The remaining contamination is discussed by media in which it was encountered.

3.6.1 Soil

Concentrations of individual constituents detected in specific surface soil samples, soil/fill samples, and confirmatory soil samples are presented on Tables 1, 7A and 8A (VOCs), Tables 2, 7B and 8B (SVOCs), Tables 7C and 8C (PCBs and Pesticides) and Tables 3, 7D and 8D (Metals and Cyanide). These tables summarize the test results for samples collected and are indicative of soil remaining at the Site after completion of the remedial measures. These tables also identify samples that contained concentrations that exceeded Unrestricted Use SCOs and/or Restricted Commercial SCOs. [Note: Confirmatory soil samples (i.e., discussed in Section 3.4 and test results provided in Appendix H) were also tested for Alcohol using modified USEPA Method 8015, PCBs using USEPA Method 8082 and organochloride pesticides using USEPA Method 8081. However, these compounds were 'Not Detected' above the detection limits utilized by the analytical laboratory in the confirmatory soil samples tested. As such, summary tables for Alcohols, PCBs or Pesticides were not prepared for the confirmatory soil samples.]

Figure 6 presents the soil/fill samples that represent post-remediation Site conditions and designates samples containing one or more constituents at concentrations exceeding their respective Restricted Commercial Use SCOs. As shown on Figure 6, contamination exceeding the Restricted Commercial Use SCOs remains in place below the demarcation layer following completion of the remedial measures. Specifically, the contaminants of concern in soil above the Restricted Commercial Use SCOs that remain in place in some locations following remedial measures include benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene, arsenic, barium, cadmium, copper, and lead.

3.6.2 Groundwater

Detectable levels of VOC TICs and SVOC TICs are present in groundwater at the Site; however, VOCs and SVOCs were not consistently detected in the groundwater samples at concentrations greater than groundwater standards or guidance values [i.e., the compounds tert-butylbenzene and bis(2-chloroethyl)ether were detected in groundwater samples collected from one or more of the monitoring wells at the Site. However, neither of these compounds was detected on more than one occasion in any of the locations tested.] Various

metals are present in groundwater at concentrations greater than their respective groundwater standards or guidance values, including antimony, arsenic, barium, iron, manganese, selenium, sodium and thallium. The concentrations of iron, manganese and sodium are typical of background conditions and, as such, apparently not attributable to contaminants at the Site. As shown on Figure 7, a discernible plume in relation to metals was not identified at the Site. Rather localized areas of metal impacts appear to be present across the Site. Tables 9A through 9D and Figure 7 summarize the results of groundwater samples that exceed the SCGs after completion of the remedial action.

Note: An apparent plume of petroleum-impacted groundwater was identified in the western portion of the Site. However, this plume is attributable to an off-site source and the concentrations measured and the apparent degree of petroleum impact do not appear to increase as groundwater migrates through the Site.

3.6.3 Engineering Control / Institutional Control Measures

Since contaminated soil and groundwater remains beneath the Site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. The Engineering and Institutional Controls (ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the SMP approved by the NYSDEC. The ECs for the Site consist of a cover system that is comprised of 1) a 1-foot thick soil cover, constructed over an approximate 148,000 ft^2 area of the Site (described in Section 3.7 and Section 3.8) and 2) the existing asphalt pavement over an approximate 81,000 ft^2 area of the Site that is currently utilized as the Employee Parking Lot for the adjacent property (i.e., 211 Franklin Street). [Note: Reportedly between October 11 and 14, 2019 degraded areas of the asphalt cover were patched/replaced by RPC. In addition, significant cracks in the asphalt were sealed using a tar-type asphalt sealant. Photographic documentation of the asphalt repair work is included in the photo log, presented as Appendix D.]

3.7 INTERIM SOIL COVER

The “Interim Soil Cover” described herein is the initial portion of the final cover, that was constructed between October and December 2017. The interim cover is discussed below.

Reportedly between October 23 and 27, 2017 the area of the Site located to the north of the employee parking lot was prepared for the placement of the interim soil cover. RPC used a 13-ton Volvo Model SD 115 vibratory soil compactor equipped with a 7 ft. wide tamping

(a.k.a. sheep foot) roller to proof roll and compact the ground surface, for the purposes of removing voids from the shallow subsurface and compressing the existing topsoil. The areas compacted between October 23 and 27, 2017 are depicted on Figure 4. Subsidence of limited areas (i.e., within the footprint of the former building located on the east-central portion of the Site, where former basement structures are present) occurred during the compaction effort. As a result, RPC placed gravel fill (refer to Section 3.5) within these limited areas in order to stabilize and maintain the approximate grade desired for the interim soil cover subgrade. No materials were removed from these former basements.

Reportedly between November 2 and 28, 2017 the interim soil cover was constructed over an approximate 107,350 sq. ft. area (refer to Figure 4). The interim soil cover consists of an approximate 0.4 ft. to 0.8 ft. layer of gravel fill (refer to Section 3.5) underlain by a layer of woven geotextile (i.e., which also acts as a demarcation layer to identify the bottom of the site cover, if disturbed during future intrusive work at the Site). The product data sheet for the woven geotextile is included in Appendix J.

Prior to placement of the interim soil cover, limited grading was completed by RPC, using a bulldozer, to level the ground surface that had been disturbed by the tamping roller described above. The woven geotextile was placed on the ground surface, starting at the northwest corner of the employee parking lot, and unrolled from west to east across the site, overlapping approximately 1-2 ft. when adjacent rolls of woven geotextile were placed as the construction proceeded toward the north and east. The gravel fill was subsequently placed on the woven geotextile, spread, and compacted using a flat-drum vibratory soil compactor.

An approximate 31,700 sq. ft. area, located on the northern portion of the Site and adjacent to the north of the interim soil cover depicted on Figure 4, was compacted as described above. However, the interim soil cover was not constructed over this area.

Reportedly on December 12, 2017 RPC erected a construction fence to surround the approximate 31,700 sq. ft. area (i.e., where the interim soil cover was not constructed) to restrict access to this portion of the Site. In addition, RPC erected a construction fence along the northern edge of the employee parking lot to restrict access onto the interim soil cover. The fencing described above was removed in July 2019, prior to the resumption of construction activities described in Section 3.7.

3.8 FINAL SOIL COVER CONSTRUCTION

Construction of the soil cover system for the Site resumed in July 2019. Following the Site preparation activities that were completed by representatives of SolEpoxy and RPC (refer to Section 3.2.2), RPC began to import soil to the Site, and stockpile the material on the interim soil cover (refer to Section 3.7). A description of the imported soil is provided in Section 3.5.

3.8.1 Limited Soil/Fill Removal Prior to Cover Placement

The purpose of the limited soil/fill removal was to provide adequate depth to place a 1-foot thick layer of "clean cover soil" over exterior portions of the Site, to the edge of the Site boundary, and maintain the existing grade over the adjacent employee parking lot. Additional soil/fill was removed for grading purposes prior to placement of the #2 and # 3 stone in the drainage channel that was constructed to the north of the employee parking lot (described in Section 3.9). The fill material removed generally consisted of re-worked soil. However, some apparent construction and demolition type materials including brick, concrete, and asphalt were also noted in the fill.

The limited soil removal activities around the perimeter of the Employee Parking Lot were completed by RPC between July 30 and August 1, 2019. This removal was completed using an excavator, and the grading activities were completed using an excavator and/or skid-steer loader. The limited excavation areas included:

- removal of soil/fill from an approximate 2,300 ft^2 area located along the southwest edge of the Employee Parking Lot, in the vicinity of the former UST (refer to Section 3.3.2), extending to the southwest property boundary with the railroad ROW. Approximately 12 inches, or greater, of material was removed from this area;
- removal of soil/fill from an approximate 2,700 ft^2 area located along the northeast edge of the Employee Parking Lot, extending to the northeast property boundary with the adjacent ball field. Approximately 12 inches, or greater, of material was removed from this area.
- removal of soil/fill from an approximate 1,920 ft^2 area located along the southeast edge of the Employee Parking Lot, extending to the southeast property boundary with the Franklin Street ROW. Approximately 12 inches, or greater, of material was removed adjacent to the parking lot asphalt. However, the depth of the material removed decreased as the excavation approached the property boundary, so as to

accommodate a soil berm that was placed along the length of the Franklin Street ROW property boundary (described below).

The limited soil removal activities completed prior to construction of the drainage channel (refer to Section 3.9) were completed by RPC between August 21 and 22, 2019. The excavations were completed using an excavator, and the grading activities were completed using an excavator and bulldozer. Interim soil cover material was removed from the drainage channel footprint, to the depth of the top of the demarcation fabric (refer to Section 3.7) and stockpiled for re-use at the Site as cover soil. Upon encountering the demarcation fabric, RPC cut away the fabric within the footprint of the drainage channel, and disposed of the fabric off-site as a municipal waste. [Note: the demarcation fabric was replaced following the limited excavation, as indicted in Section 3.8.2.] Approximately 12 inches of Site soil/fill was excavated from below the level of the demarcation fabric along the edges of drainage channel; and the excavation depth gradually increased to approximately 24 inches below the level of the demarcation fabric, along the center of the drainage channel. The base of the drainage channel was subsequently graded to promote stormwater runoff away from the employee parking lot and toward the northwest edge of the Site.

3.8.1.1 Onsite Reuse

The excavated materials described in Section 3.7.1 were loaded into a dump truck, transported to the northwest portion of the Site, and placed at the ground surface over an approximate 6,000 ft^2 area to create a berm. This material was subsequently covered with demarcation fabric and a minimum 1-foot thick layer of import soil cover.

3.8.2 Demarcation Layer and Soil Cover Grade Markers

Subsequent to the excavation and grading activities described in Section 3.7.1, a demarcation fabric was placed over the areas designated for soil cover. Two distinct types of demarcation fabric were used at the Site, as described below:

- A black, woven geotextile fabric (i.e., *TerraTex® GS*) was placed over the approximate 107,350 sq. ft. area of interim soil cover (refer to Section 3.7), over an approximate 14,500 sq. ft. area located at the northeast corner of the Site, and within the drainage channel, to replace the demarcation fabric removed during the limited excavation activities described in Section 3.7.1.
- An orange netting-type fabric (i.e., *High Visible Orange Demarcation Netting*) was placed over the approximate 2,300 ft^2 area located along the southwest edge of the Employee Parking Lot, the approximate 2,700 ft^2 area located along the northeast

edge of the Employee Parking Lot, the approximate 1,920 ft^2 area located along the southeast edge of the Employee Parking Lot, and an approximate 13,800 ft^2 area located to the north and northwest of the area of interim soil cover.

The approximate areal extent of placement for each type of demarcation fabric described above is depicted on Figure 8. The product data sheets for the demarcation fabrics describe above are included in Appendix J.

3.8.3 Soil Cover Placement

Generally, the soil cover was constructed by placement of the import soil material onto the Site using a dump truck, and subsequently spreading the soil using a bulldozer and/or skid-steer loader to achieve a grade elevation of approximately 2-3 inches above the top of the grade stake markers. The material was subsequently compacted using a drum- roller until the required 1-foot thickness was achieved. However, the soil cover constructed along the southern perimeter of the Site was placed and compacted using an excavator bucket, in order to keep to import soil from migrating onto the asphalt parking lot. Documentation of the soil cover construction is included in the field report summaries and photographic log provided as Appendix C and Appendix D, respectively.

Subsequent to completing the construction of the soil cover, portions of the soil cover surface (i.e., along the southern, southwestern and northeastern edges of the Employee Parking Lot) were top-dressed with a one to three inch thick layer of screened soil (refer to Section 3.5) and subsequently seeded with grass seed and covered with straw to promote vegetative growth. The remainder of the soil cover was seeded by placement of grass seed and straw directly onto the compacted surface. The areas of soil cover that are considered part of the cover system are depicted on Figure 5.

3.9 DEVIATIONS FROM THE REMEDIAL ACTION WORK PLANS

Deviations from the RAWP and the reasons for the change are noted below. The deviations from the RAWP are referenced by Section from which they appear in the RAWP document. The deviations noted below did not affect the performance of the remedial actions completed, or the overall remedy for the Site.

3.1.3 Subsurface Examination and Sampling – The frequency of the confirmatory soil samples collected on September 28, 2017 from the UST excavation was not in accordance with Section 5.5 of DER-10. The frequency was modified, at the request of the NYSDEC project manager, based on the subsurface conditions encountered. In addition, the test parameters identified for the confirmatory soil samples collected on September 28, 2017

were modified based on a request by the NYDSEC project manager to test select confirmatory soil samples for additional parameters (i.e., SVOCs plus TICs, TAL metals, PCBs, and organochlorine pesticides) for the purpose of characterization of impacts to subsurface soil.

3.3.2 Grading and Limited Removal of Construction and Demolition Materials – following the completion of the site preparation work (refer to section 3.2.2), it was determined that the existing surface grade of the portion of the Site located to the north of the employee parking lot was acceptable for the purposes of constructing the cover and/or future development of the Site. Therefore, grading activities other than those described in Section 3.7 were not completed prior to construction of the interim soil cover. As such construction and demolition materials (C&D) were not encountered, removed, or disposed as a result of grading.

3.3.3 Import and Placement of Aggregate Material - Following approval of the RAWP the NYSDEC project manager indicated that a demarcation layer would be a required component in the construction of soil cover system for the Site. Therefore, the woven geotextile described in Section 3.7 was installed prior to the placement of the gravel fill over the approximate 107,350 sq. ft. area of the site located adjacent to the north of the employee parking lot.

Deviations from the RAWP Addendum and the reasons for the change are noted below. The deviations from the RAWP Addendum are referenced by section from which they appear in the RAWP Addendum document. The deviations noted below did not affect the performance of the remedial actions completed, or the overall remedy for the Site.

3.5 Soil Cover System – Following the approval of the RAWP Addendum, a meeting was held at the Site on July 31, 2019 to review the construction activities proposed. Representatives from Silence Dogood, LLC and DAY were in attendance along with the NYSDEC project manager. The Silence Dogood, LLC representative requested that a portion of the soil cover system be constructed using a washed stone material, to facilitate stormwater drainage away from the Employee Parking Lot. The NYSDEC project manager indicated that the construction of a drainage channel, to the north of the Employee parking lot, and within the area of the soil cover would be acceptable to the Department. In addition, the effect of the soil cover system on the long-term health of the mature trees that are located along the eastern edge of the Site was discussed, and it was determined that a mulch cover would be constructed below the tree canopies, in lieu of a soil cover.

3.10 INSTITUTIONAL CONTROLS

The Remedy required that an environmental easement be placed on the property (refer to Section 2.2).

The environmental easement for the Site was executed by the Department on August 27, 2019 and filed with the Cattaraugus County Clerk on September 18, 2019. The County instrument number for this filing is 201910479. A copy of the easement and proof of filing is provided in Appendix K.

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OLEAN, NEW YORK
NYSDEC BCP SITE #C905043
SUMMARY OF DETECTED TCL LIST VOCs: CONFIRMATORY SOIL SAMPLES

Compound	CAS #	CP-51 SCL[(1)]	Restricted Commercial Use SCO[(2)]	Sample Designation and Date									
				UST CS-1 9/28/2017	UST CS-2 9/28/2017	UST CS-3 9/28/2017	UST CS-4 9/28/2017	UST CS-5 9/28/2017	UST CS-6 9/28/2017	UST CS-7 9/28/2017	UST EX-8 9/28/2017	UST EX-9 9/28/2017	UST EX-10 9/28/2017
Acetone	67-64-1	NS	500	*U (0.0382)*	*U (0.0321)*	*U (0.0309)*	*U (0.0210)*	0.0122 J	0.0701	0.755 E	U (0.351) D	0.198 D	0.0168
sec-Butylbenzene	135-98-8	11.0	500	*U (0.00382)*	*U (0.00321)*	*U (0.00309)*	*U (0.00210)*	*U (0.00269)*	*U (0.00300)*	*U (0.00284)*	0.0123 J,D	*U (0.00187)*	*U (0.00151)*
tert-Butylbenzene	98-06-6	5.9	500	*U (0.00382)*	*U (0.00321)*	*U (0.00309)*	*U (0.00210)*	*U (0.00269)*	*U (0.00300)*	*U (0.00284)*	0.0414 D	0.00262	0.0008 J
Carbon Disulfide	75-15-0	NS	NS	*U (0.00765)*	*U (0.00641)*	*U (0.00617)*	*U (0.00421)*	*U (0.00538)*	*U (0.00600)*	*U (0.00569)*	*U (0.0702)* D	0.0304	0.0122
Ethanol	64-17-5	NS	NS	*U (0.765)*	*U (0.641)*	*U (0.617)*	*U (0.421)*	*U (0.538)*	*U (0.600)*	*U (0.569)*	3.71 J,D	*U (0.347)*	*U (0.302)*
Naphthalene	91-20-3	12.0	500	*U (0.00382)*	*U (0.00321)*	*U (0.00309)*	*U (0.00210)*	*U (0.00269)*	*U (0.00300)*	*U (0.00284)*	*0.0277* JD	*U (0.00187)*	*U (0.00151)*
n-propylbenzene	103-65-1	3.9	500	*U (0.00382)*	*U (0.00321)*	*U (0.00309)*	*U (0.00210)*	*U (0.00269)*	*U (0.00300)*	*U (0.00284)*	*0.00808* J,D	*U (0.00187)*	*U (0.00151)*
Tert-Butanol / butyl alco	75-65-0	NS	NS	*U (0.0382)*	*U (0.0321)*	*U (0.0309)*	*U (0.0210)*	*U (0.0269)*	*U (0.0300)*	*U (0.0284)*	*U (0.351)* D	0.593	*U (0.0151)*
Toluene	108-88-3	0.7	500	*U (0.00382)*	*U (0.00321)*	*U (0.00309)*	*U (0.00210)*	*U (0.00269)*	*U (0.00300)*	0.022 J,D	*U (0.0351)* D	*U (0.00187)*	*U (0.00151)*
Total TICs	NA	NS	NS	U	U	U	U	U	U	U	1.98 D	0.084	0.029 J
Total VOCs + Total TICs	NA	NS	NS	U	U	U	U	0.012 J	0.070	0.777 JDE	5.726 JD	0.908 D	0.059 J

NOTES

Volatile organic compound (VOC) concentrations are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Level (SCL) as referenced in NYSCEC Commissioner Policy 51 dated 10/21/2010.

(2) = Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

*Indicates that the concentrations presented are from the sample re-analysis, reported by the analytical laboratory

NS = No Standard

U = Not detected at a concentration greater than the detection limit reported by the analytical laboratory

J = Estmated Value, above the Method Detection Limit but below the Reporting Limit

E = Estimated value, due to exceeding the calibration range or interferences resulting in a biased final concentration

D = Data reported from a dilution

TABLE 2
202 FRANKLIN STREET
OLEAN, NEW YORK
NYSDEC BCP SITE #C905043
SUMMARY OF DETECTED TCL LIST SVOCs: CONFIRMATORY SOIL SAMPLES

Compound	CAS #	CP-51 SCL[1]	Restricted Commercial Use SCO[2]	Sample Designation and Date			
				UST CS-COMP* 9/28/2017	UST EX-8 9/28/2017	UST EX-9 9/28/2017	UST EX-10 9/28/2017
Anthracene	120-12-7	100	500	0.210 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Benzo(a)anthracene	56-55-3	1	5.6	0.390 D	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Benzo(a)pyrene	50-32-8	1	1	0.310 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Benzo(b)fluoranthene	205-99-2	1	5.6	0.217 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Benzo(g,h,i)perylene	191-24-2	100	500	0.162 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Benzo(k)fluoranthene	207-08-9	0.8	56	0.340 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Chrysene	218-01-9	1	56	0.360 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Fluoranthene	206-44-0	30	500	0.685 D	*U (0.0707)*	0.0404 J	*U (0.0697)*
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	0.197 J	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Phenanthrene	85-01-8	100	500	0.858 D	*U (0.0707)*	0.0656 J	*U (0.0697)*
Phenol	108-95-2	NS	NS	0.241 J	*U (0.350)*	*U (0.357)*	*U (0.345)*
Pyrene	129-00-0	100	500	0.589 D	*U (0.0707)*	*U (0.0722)*	*U (0.0697)*
Total TICs	NA	NS	NS	U	*0.430* J	*3.31* J	U
Total VOCs + Total TICs	NA	NS	NS	4.559	0.430	3.416	U

NOTES

Semi-Volatile organic compound (SVOC) concentrations are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Level (SCL) as referenced in NYSCEC Commissioner Policy 51 dated 10/21/2010.

(2) = Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

NS = No Standard

U = Not detected at a concentration greater than the detection limit reported by the analytical laboratory

J = Estmated Value

D = Data reported from a dilution

TABLE 3
202 FRANKLIN STREET
OLEAN, NEW YORK
NYSDEC BCP SITE #C905043
SUMMARY OF DETECTED TAL METALS: COFIRMATORY SOIL SAMPLES

Compound	CAS #	Restricted Commercial Use SCO[(1)]	Sample Designation and Date			
			UST CS-COMP* 9/28/2017	UST EX-8 9/28/2017	UST EX-9 9/28/2017	UST EX-10 9/28/2017
Aluminum	7429-90-5	NS	14,000	4,120	6,150	3,120
Antimony	7440-36-0	NS	*U (2.0)*	0.379 J	*U (5.32)*	0.462 J
Arsenic	7440-38-2	16	8.37	3.6	3.69	2.89
Barium	7440-39-3	400	73.8	20.4	25.2	21.6
Beryllium	7440-41-7	590	0.5	0.147 J	0.248 J	0.0836 J
Cadmium	7440-43-9	9.3	0.56	*U (0.499)*	*U (0.532)*	*U (0.492)*
Calcium	7440-70-2	NS	25,100	58,900	52,800	95,400
Chromium	7440-47-3	1,500	11.7	4.2	4.43	3.28
Cobalt	7440-48-4	NS	13.6	4.04	4.15	2.44
Copper	7440-50-8	270.0	39.7	13.9	14.1	13.4
Iron	7439-89-6	NS	18,200	7,490	7940	6,780
Lead	7439-92-1	1000	15.1	4.39	4.13	5.28
Magnesium	7439-95-4	NS	2,780	2,550	3,000	18,400
Manganese	7439-96-5	10,000	901	1,550	969	1,430
Nickel	7440-02-0	310	33	8.95	9.7	6.62
Potassium	7440-09-7	NS	1,200	703	518	566
Selenium	7782-49-2	1,500	*U (1.6)*	0.803 J	0.543 J	0.866 J
Sodium	7440-23-5	NS	109	67.3	61.5	117
Vanadium	7440-62-2	NS	14.5	6.74	5.52	5.51
Zinc	7440-66-6	10,000	137	40.4	52	37.6

NOTES

Metal concentrations are presented in milligrams per kilogram (mg/kg) or parts per million (ppm).

(1) = Soil Cleanup Objective (SCO) for Restricted Commercial Use as referenced in 6 NYCRR Part 375 dated 12/14/06.

NS = No Standard

U = Not detected at a concentration greater than the detection limit reported by the analytical laboratory

J = Estmated Value

TABLE 4
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED TCL LIST VOCS AND TICS: IMPORT SOIL SAMPLES

Compound	Unrestricted Use (SCO)	Restricted Commercial Use (SCO)	Sample Designation and Date												
			Area 1-1 6/19/2019	Area 1-2 6/19/2019	Area 1-3 6/19/2019	Area 2-1 6/19/2019	Area 2-2 6/19/2019	Area 3-1 6/19/2019	Area 3-2 6/19/2019	Area 3-3 6/19/2019	Area 4-1 6/19/2019	Area 4-2 6/19/2019	Area 5-1 6/19/2019	Area 5-2 6/19/2019	Area 5-3 6/19/2019
4-Isopropyltoluene	NA	NA	ND	ND	ND	ND	ND	0.008	ND	0.005	ND	0.002 J	ND	ND	ND
Acetone	0.05	500	ND	0.006	ND	0.015	0.019	0.012	0.012	0.012	0.005	0.009	ND	0.011	ND
Methyl Acetate	NA	NA	ND	0.002 J	ND	ND	ND	ND	ND	0.007	0.006	0.005	ND	ND	ND
Toluene	0.7	500	0.0006 J	0.0002 J	0.0002 J	0.0005 J	0.0002 J	0.0003 J	0.0003 J	0.0002 J	0.0002 J	0.0002 J	0.0003 J	0.0002 J	0.0004 J
Total TICs	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

TIC = Tentatively Identified Compound

NA = Not Available

J = Estimated Value

ND = Not Detected

= Concentration exceeds the Unrestricted Use SCO

= Concentration exceeds the Restricted Commercial Use SCO

TABLE 5
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED SVOC TICS: IMPORT SOIL SAMPLES

Compound	Unrestricted Use (SCO)	Restricted Commercial Use (SCO)	Sample Designation and Date				
			Area 1 6/19/2019	Area 2 6/19/2019	Area 3 6/19/2019	Area 4 6/19/2019	Area 5 6/19/2019
Total Target Compounds	NA	NA	ND	ND	ND	ND	ND
Total TICs	NA	NA	6.10 JN	3.40 JN	1.93 JN	3.60 JN	6.60 JN

Notes:

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

TIC = Tentatively Identified Compound

NA = Not Available

JN = Estimated Value

ND = Not Detected

= Concentration exceeds the Unrestricted Use SCO

= Concentration exceeds the Restricted Commercial Use SCO

TABLE 6
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF TAL LIST METALS IN IMPORT SOIL SAMPLES

Metal	Unrestricted Use (SCO)	Restricted Commercial Use (SCO)	Sample Designation and Date				
			Area 1 6/19/2019	Area 2 6/19/2019	Area 3 6/19/2019	Area 4 6/19/2019	Area 5 6/19/2019
Aluminum	NA	NA	5440	5780	10100	7110	6510
Antimony	NA	NA	ND	ND	ND	ND	ND
Arsenic	13	16	8.4	9.7	8	10.7	12.8
Barium	350	400	60.4	63.9	58.7	73.8	64.5
Beryllium	7.2	590	0.3 J	0.3 J	0.36 J	0.36	0.33
Cadmium	2.5	9.3	0.18 J	0.21 J	0.19 J	0.22 J	0.2 J
Calcium	NA	NA	13600	8070	1120	10300	9060
Chromium	30	1,500	6.9	7.2	11.1	8.5	7.7
Cobalt	NA	NA	5.2 J	5.9	5.6 J	6.9	6.4
Copper	50	270	11.9	14.9	10	14.7	13.7
Iron	NA	NA	16500	17700	17700	20600	17700
Lead	63	1000	10.2	13.1	9.6	11.2	11.3
Magnesium	NA	NA	2690	2630	2020	3160	3010
Manganese	1600	10,000	432	533	253	583	444
Mercury	0.18	2.8	ND	ND	0.038 J	ND	0.006 J
Nickel	30	310	9.7	11.5	12.4	12.7	12
Potassium	NA	NA	790	740	600	980	840
Selenium	3.9	1,500	ND	ND	1 J	0.7 J	ND
Silver	2	1,500	ND	ND	ND	ND	ND
Sodium	NA	NA	ND	ND	ND	ND	ND
Thallium	NA	NA	ND	ND	ND	ND	ND
Vanadium	NA	NA	9	9	16.8	11.8	10.4
Zinc	109	10,000	37.6	39.4	56.2	58.4	47.9

Notes:

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

NA = Not Available

J = Estimated Value

ND = Not Detected

= Concentration exceeds the Unrestricted Use SCO

= Concentration exceeds the Restricted Commercial Use SCO

TABLE 7A
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOCS) IN SURFACE SOIL SAMPLES

Contaminant	CAS Number	**A** Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	SS-01 6/27/2014		SS-02 6/27/2014		SS-03 6/27/2014		SS-04 6/27/2014		SS-05 6/27/2014		SS-06 6/27/2014		SS-07 6/27/2014		SS-08 6/27/2014		SS-09 6/27/2014		SS-10 6/27/2014		SS-11 6/27/2014	
Acetone	67-64-1	0.05	500	0.003 J		0.02 J		0.0061 J		0.0081 J		0.056 J	**A**	U J		0.018 J		U J		U J		U J		0.0039 J	
Methylene chloride	75-09-2	NA	NA	U		U		U		U		0.0019		U		U		U		U		U		U	
Total TICs				0.0199		U		U		U		U		U		U		U		U		U		U	
Total VOCs and TICs				**0.0229**		**0.02**		**0.0061**		**0.0081**		**0.0579**		**U**		**0.018**		**U**		**U**		**U**		**0.0039**	

Notes:

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

J = Estimated Value

N = Considered To Be Positively Identified

NA = Not Available

U = Not Detected

UJ = The analyte was analyzed for, but was not detected. The associated quantitation limit is approximate.

A = Exceeds Unrestricted Use SCO

TABLE 7B
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCS) IN SURFACE SOIL SAMPLES

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	SS-01 6/27/2014		SS-02 6/27/2014		SS-03 6/27/2014		SS-04 6/27/2014		SS-05 6/27/2014		SS-06 6/27/2014		SS-07 6/27/2014		SS-08 6/27/2014		SS-09 6/27/2014		SS-10 6/27/2014		SS-11 6/27/2014	
1-Methylnaphthalene[1]	90-12-0	NA	NA	U		0.18 J		0.16 J		U		0.1 J		0.34 J		U		0.18 J		0.086 J		U		U	
2-Methylnaphthalene	91-57-6	NA	NA	U		0.2 J		0.17 J		U		0.079 J		0.3 J		U		0.23 J		0.074 J		U		U	
Acenaphthene	83-32-9	20	500	0.17 J		0.41		0.11 J		0.33 J		U		0.6		U		0.18 J		0.72		0.48		U	
Acenaphthylene	208-96-8	100	500	U		0.2 J		0.29 J		0.081 J		U		0.19 J		U		U		0.083 J		U		U	
Anthracene	120-12-7	100	500	0.36 J		0.82		0.56		1.2		U		1.4		0.16 J		0.45		2.1		1.6		0.12 J	
Benzo(a)anthracene	56-55-3	1	5.6	1.5	A	1.7	A	1.7	A	3.8	A	0.21 J		2.6	A	0.58		0.92		8.8	AB	4.1	A	0.46	
Benzo(a)pyrene	50-32-8	1	1	1.6	AB	1.4	AB	1.5	AB	3.7	AB	0.23 J		2.4	AB	0.59		0.75		U		4	AB	0.66	
Benzo(b)fluoranthene	205-99-2	1	5.6	2.5	A	2	A	2	A	5.1	A	0.31 J		2.9	A	0.7		1		13	AB	5.8	AB	0.49	
Benzo(g,h,i)perylene	191-24-2	100	500	1.2		0.74		1.6		2.9		0.25 J		2.3		0.53		0.66		7.6		2.9		1.1	
Benzo(k)fluoranthene	207-08-9	0.8	56	0.98	A	0.78		0.76		2	A	0.13 J		1	A	0.29 J		0.35 J		5.2	A	2.1	A	0.16 J	
Benzoic acid	65-85-0	NA	NA	U		0.47 J		0.19 J		U		1.5		0.15 J		U		0.13 J		U		U		0.15 J	
Bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	U		U		U		0.26 J		U		U		U		U		U		U		U	
Carbazole	86-74-8	NA	NA	0.24 J		0.36 J		0.19 J		0.51		U		0.56		U		0.26 J		1.1		0.57		U	
Chrysene	218-01-9	1	56	2	A	1.6	A	1.8	A	4.5	A	0.29 J		3	A	0.67		1		10	A	4.9	A	0.62	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	0.25 J		0.23 J		0.31 J		0.72	AB	U		0.44	A	0.1 J		0.17 J		1.8	AB	0.64	AB	U	
Dibenzofuran	132-64-9	7	350	U		0.34 J		0.14 J		0.18 J		U		0.39 J		U		0.26 J		0.31 J		0.19 J		U	
Di-n-butylphthalate	84-74-2	NA	NA	0.11 J		U		U		U		0.12 J		0.74		U		0.18 J		U		U		U	
Fluoranthene	206-44-0	100	500	4.1		3.3		2.7		8.7		0.24 J		5.4		1		2		23		12 D		0.53	
Fluorene	86-73-7	30	500	0.16 J		0.44		0.15 J		0.4		U		0.56		U		0.22 J		0.72		0.56		U	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	1.2	A	0.9	A	1.1	A	3.1	A	0.18 J		1.5	A	0.4 J		0.47		7.8	AB	3.2	A	U	
Naphthalene	91-20-3	12	500	U		0.27 J		0.14 J		U		U		0.4 J		U		0.21 J		U		U		U	
Phenanthrene	85-01-8	100	500	2		3.1		1.7		5.1		0.15 J		6		0.7		2		12		6.6 D		0.44	
Pyrene	129-00-0	100	500	3		2.5		2.6		7.8		0.26 J		4.9		0.91		1.3		20		8.4 D		0.57	
Total TICs				21.82		12.74		19.99		24.61		9.5		29.52		9.89		9.05		15.68		19.87		12.34	
Total SVOCs and TICs				43.19		34.68		39.86		74.991		13.549		67.59		16.52		21.97		130.07		77.91		17.64	

Notes:
Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

D = Diluted Sample

J = Estimated Value

NA = Not Available

U = Not Detected

A = Exceeds Unrestricted Use SCO

B (Highlighted Value) = Exceeds Restricted Commercial Use SCO

[1] Analyte was not validated.

TABLE 7C
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF PESTICIDE/HERBICIDE/PCBS IN SURFACE SOIL SAMPLES

Contaminant	CAS Number	**A** Unrestricted Use (SCO)	**B** Restricted Commercial Use (SCO)	SS-01 6/27/2014		SS-02 6/27/2014		SS-03 6/27/2014		SS-04 6/27/2014		SS-05 6/27/2014		SS-06 6/27/2014		SS-07 6/27/2014		SS-08 6/27/2014		SS-09 6/27/2014		SS-10 6/27/2014		SS-11 6/27/2014	
4,4´-DDE	72-55-9	0.0033	62	U		U		U		U		0.0054 J	**A**	U		U		U		U		U		U	
4,4´-DDT	50-29-3	0.0033	47	U		U J		0.03	**A**	U		U J		0.029	**A**	U J		U		U		U		U J	
Aldrin	309-00-2	0.005	0.68	U		U		U		U		U		U		0.0036 J		0.0096 J	**A**	U		U		0.0039 J	
alpha-BHC	319-84-6	0.02	3.4	U		U		U		U		0.0045 P, NJ		U		U J		U		U		U		U	
alpha-Chlordane	5103-71-9	0.094	24	0.053		U		0.049 J		0.075 J		U		0.0085		U J		U		U J		0.042 J		0.0082 J	
Endosulfan II	33213-65-9	2.4	200	U		0.0051 J		U		U		U J		U		U J		U		U		U		U J	
Endosulfan sulfate	1031-07-8	2.4	200	0.034 P		U		U		U		U		U		U		U		U		U		U	
Endrin aldehyde	7421-93-4	NA	NA	U		U J		U		U		U J		0.017 P, NJ		U J		U		U		U		U J	
Methoxychlor	72-43-5	NA	NA	0.34		U		U		U		U		0.11 P, J		U J		U		U		U		U J	
Polychlorinated biphenyls	1336-36-3	0.1	1	U		0.13 P,J	**A**	0.093		U		U		0.11	**A**	U		U		U		U		U	

Notes:

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

NA = Not Available

P = Lower of Two Values Reported From Primary And Confirmation Analyses When > 25% Difference Detected

U = Not Detected

J = Estimated Value

NJ = The detection is tentative in identification and estimated in value.

UJ = The analyte was analyzed for, but was not detected. The associated quantitation limit is approximate.

A = Exceeds Unrestricted Use SCO

TABLE 7D
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF TAL METALS AND CYANIDE IN SURFACE SOIL SAMPLES

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	SS-01 6/27/2014		SS-02 6/27/2014		SS-03 6/27/2014		SS-04 6/27/2014		SS-05 6/27/2014		SS-06 6/27/2014		SS-07 6/27/2014		SS-08 6/27/2014		SS-09 6/27/2014		SS-10 6/27/2014		SS-11 6/27/2014	
Aluminum	7429-90-5	NA	NA	8320		9310		10800		2990		3900		6470		12400		2850		6390		6180		7570	
Antimony	7440-36-0	NA	NA	2.2 N		0.83 b,N		1.3 N		U N		0.69 b,N		U N		1.1 N,J		0.58 b,N		0.63 b,N		0.77 b,N		1.9 N	
Arsenic	7440-38-2	13	16	51.6 N	**AB**	12.4 N		24.8 N	**AB**	3.7 N		18.2 N	**AB**	3.4 N		14 N,J	**A**	20.4 N	**AB**	8.6 N		11.6 N		15.4 N	**A**
Barium	7440-39-3	350	400	230 N		131 N		183 N		31 N		97.5 N		143 N		135 N,J		44.7 N		58.5 N		89.9 N		105 N	
Beryllium	7440-41-7	7.2	590	0.91 N		0.46 N		0.88 N		0.14 b,N		0.67 N		0.22 N		0.66 N,J		0.46 N		0.32 N		0.45 N		0.55 N	
Cadmium	7440-43-9	2.5	9.3	2.1 N		0.46 N		0.38 N		0.04 b,N		0.082 b,N		0.16 b,N		0.43 N,J		0.39 N		0.21 b,N		0.44 N		0.49 N	
Calcium	7440-70-2	NA	NA	5160		1840		3380		2140		898		6520		1950		572		8970		6080		2110	
Chromium	7440-47-3	30	1,500	24.8 N		12.1 N		19.8 N		5.2 N		8.6 N		3.6 N		15.9 N,J		6.5 N		15.6 N		12.1 N		13.4 N	
Cobalt	7440-48-4	NA	NA	6.6 N		7.1 N		8.7 N		2.3 N		4.8 N		0.86 b,N		9 N,J		5.5 N		5.8 N		5.7 N		7.9 N	
Copper	7440-50-8	50	270	105 N	**A**	117 N	**A**	84.4 N	**A**	14.2 N		47.7 N		5.3 N		44.1 N,J		28.9 N		27.2 N		31.8 N		74.1 N	**A**
Iron	7439-89-6	NA	NA	25100		18800		35200		7760		33100		3610		22300		20800		16300		17300		25700	
Lead	7439-92-1	63	1000	441	**A**	149	**A**	134	**A**	16.3		25		23.5		100	**A**	37.3		44.3		62.5		213	**A**
Magnesium	7439-95-4	NA	NA	1310		1760		1840		1170		297		756		2140		313		3100		2090		1490	
Manganese	7439-96-5	1600	10,000	397		533		586		258		61.8		94.1		725		96.8		554		625		454	
Mercury	7439-97-6	0.18	2.8	0.081		0.44	**A**	0.12		0.097		0.029 b		0.12		0.072		0.05 b		0.011 b		0.056		0.077	
Nickel	7440-02-0	30	310	35.7 N	**A**	14.2 N		20.8 N		6 N		10.9 N		2.4 N		19.7 N,J		8.5 N		14.5 N		15 N		18.8 N	
Potassium	7440-09-7	NA	NA	1180		696		900		299		430		610		989		223		563		731		678	
Selenium	7782-49-2	3.9	1,500	7.2 N	**A**	1.1 b,N		2.3		U N		U N		U N		0.88 b,N,J		1.1 N		U N		1.5 N		0.88 b,N	
Silver	7440-22-4	2	1,500	0.28 b		0.17 b		0.38 b		U		U N		U		U		0.088 b		U		U		0.079 b	
Sodium	7440-23-5	NA	NA	180		20.1 b		44.9 b		93.3		43.4 b		327		30.3 b		12.3 b		30.3 b		59.8		26.1 b	
Thallium	7440-28-0	NA	NA	0.37 b,N		U N		U N		U N		U N		U N		U N		U N		U N		U N		U N	
Vanadium	7440-62-2	NA	NA	22.2 N		15.7 N		22.9 N		3.9 N		19.1 N		6.6 N		22.5 N,J		10.7 N		11 N		12.6 N		18.8 N	
Zinc	7440-66-6	109	10,000	333 N	**A**	210 N	**A**	139 N	**A**	80.3 N		32.5 N		46.9 N		124 N,J	**A**	77.1 N		91.6 N		114 N	**A**	215 N	**A**
Total Cyanide	NA	27	27	U		U		U		U		U		U		U		U		U		U		U	

Notes:
Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

b = Trace Concentration Below Reporting Limit And Equal To Or Above Detection Limit

N = Matrix Spike Recovery Falls Outside Control Limit

NA = Not Available

U = Not Detected

J = Estimated Value

A = Exceeds Unrestricted Use SCO

B (Highlighted Value) = Exceeds Restricted Commercial Use SCO

TABLE 8A
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOCS) IN SOIL/FILL SAMPLES

Contaminant	CAS Number	**A** Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	MW-G (3') 6/13/2014	TB-102 (2') 6/11/2014	TB-103 (24') 6/12/2014	TB-104 (24') 6/12/2014	TB-105 (8-10') 6/11/2014	TB-106 (20') 6/11/2014	TB-106a (24') 6/19/2014	TB-107 (24') 6/13/2014	TB-108 (24') 6/12/2014	TP-01 (2') 7/30/2014	TP-02 (2.5') 7/30/2014
2-Butanone	78-93-3	NA	NA	U J	U J	U J	0.0012 J	U J	U J	U J	U J	U J	U J	U J
Acetone	67-64-1	0.05	500	0.035 J	0.0015 J	U J	0.0052 NJ	U J	0.0013 J	0.0074 J	U J	0.0052 J	U J	1.1 J **A**
Carbon disulfide	75-15-0	NA	NA	U J	U	U	U	U	U	U	U	0.001 J	U	U
cis-1,2-Dichloroethene	156-59-2	0.25	500	U J	U	U	U	U	U	U	U	U J	0.0014 J	U
Ethylbenzene	100-41-4	1	390	U J	U	U	U	U	U	U	U	U J	U	U
Isopropylbenzene	98-82-8	NA	NA	U J	U	U	U	U	U	U	U	U J	U	U
4-Isopropyltoluene	99-87-6	NA	NA	U	U	U	U	U	U	U	U	U	U	U
Methylene chloride	75-09-2	500	500	U J	U	U	U	U	U	0.0033 J+	U	U J	U	0.35
Naphthalene	91-20-3	12	500	U	0.0019 J	U	U	U	U	U	U	U	U	0.027 J
n-Butylbenzene	104-51-8	12	500	U J	U	U	U	U	U	U	U	U J	U	U
n-Propylbenzene	103-65-1	3.9	500	U	U	U	U	U	U	U	U	U	U	U
sec-Butylbenzene	135-98-8	11	500	U	U	U	0.0006 J	U	U	U	U	U	U	U
tert-Butylbenzene	98-06-6	5.9	500	0.021	U	U	0.012	U	U	0.0057	0.25	U	U	U
Toluene	108-88-3	0.7	500	U J	U	U	U	U	U	U	U	U J	U	0.011 J
Trichloroethene	79-01-6	0.7	200	U J	U	U	U J	U	U	U	U	U J	U	U
1,2,4-Trimethylbenzene[1]	95-63-6	3.6	190	U	U	U	U	U	U	U	U	U	U	0.021 J
1,3,5-Trimethylbenzene[1]	108-67-8	8.4	190	U	U	U	U	U	U	U	U	U	U	U
Mixed Xylenes	NA	0.26	500	U J	U	U	U	U	U	U	U	U J	U	U
Total TICs				21.7	U	U	2.73	U	U	1.096	66.7	0.143	U	U
VOCs + TICs				21.756	0.0034	U	2.749	U	0.0013	1.1124	66.95	0.1492	0.0014	1.509

Contaminant	CAS Number	**A** Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	TP-03 (6') 7/29/2014	TP-04 (1') 7/30/2014	TP-05 (1') 7/29/2014	TP-07 (3') 7/29/2014	TP-08 (3') 7/30/2014	TP-08 (12') 7/31/2014	TP-11 (2-3') 7/30/2014	TP-12 (2.5') 7/30/2014	TP-13 (9') 7/29/2014	TP-13 (12') 7/29/2014
2-Butanone	78-93-3	NA	NA	U J	U J	U J	U J	U J	U J	0.033 J	0.02 J	U J	U J
Acetone	67-64-1	0.05	500	0.0048 J	U J	U J	0.0005 J	U J	0.0039 J	0.2 J **A**	0.068 J **A**	0.047 J	0.12 J **A**
Carbon disulfide	75-15-0	NA	NA	U	U	U J	U R	U	U	0.004 J	U J	U	U
cis-1,2-Dichloroethene	156-59-2	0.25	500	0.0017 J	U	0.0032 J	0.0003 J	U	0.0022 J	U	0.0066 J	0.0012 J	0.0049 J
Ethylbenzene	100-41-4	1	390	U	U	U J	U J	U	U	0.0017 J	U J	U	0.0013 J
Isopropylbenzene	98-82-8	NA	NA	U	U	U J	U J	U	U	0.0013 J	U J	U	U
4-Isopropyltoluene	99-87-6	NA	NA	U	U	U J	U	U	U	0.004 J	U	U	U
Methylene chloride	75-09-2	500	500	0.0031 J	U	U	0.0004 J	U	U	0.032 J	U J	0.05	0.02
Naphthalene	91-20-3	12	500	U	U	U	U	U	U	0.0089 J	0.0013 J	U	U
n-Butylbenzene	104-51-8	12	500	U	U	U	U	U	U	0.0025 J	U	U	U
n-Propylbenzene	103-65-1	3.9	500	U	U	U	U	U	U	0.0038 J	U	U	U
sec-Butylbenzene	135-98-8	11	500	U	U	U	U	U	U	U	U	U	U
tert-Butylbenzene	98-06-6	5.9	500	U	U	U	U	U	U	U	0.0015 J	U	U
Toluene	108-88-3	0.7	500	U	U	U J	U J	U	U	0.0047 J	U J	U	U
Trichloroethene	79-01-6	0.7	200	0.0042 J	U	U J	U J	U	U	U	U J	U	U
1,2,4-Trimethylbenzene[1]	95-63-6	3.6	190	U	U	U	U	U	U	0.036 J	U	U	U
1,3,5-Trimethylbenzene[1]	108-67-8	8.4	190	U	U	U	U	U	U	0.012 J	U	U	U
Mixed Xylenes	NA	0.26	500	U	U	U J	U J	U	U	0.0155 J	U J	U	U
Total TICs				U	U	0.0087	0.0018	U	U	0.165	0.327	U	U
VOCs + TICs				0.0138	U	0.0119	0.003	U	0.0061	0.5244	0.4244	0.0982	0.1462

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

[1] Analyte not validated.

J = Estimated Value

NA = Not Available

U = Not Detected

R = The sample results are rejected due to deficiencies in meeting quality control limits

A = Exceeds Unrestricted Use SCO

J+ = The analyte was positively identified; the numerical value is an estimated quantity that may be biased high.

TABLE 8B
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCS) IN SOIL/FILL SAMPLES

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	MW-G (3') 6/13/2014	TB-102 (2') 6/11/2014	TB-103 (24') 6/12/2014	TB-104 (24') 6/12/2014	TB-105 (8-10') 6/11/2014	TB-106 (20') 6/11/2014	TB-106a (24') 6/19/2014	TB-107 (24') 6/13/2014	TB-108 (24') 6/12/2014	TP-A (3') 2/21/2014	TP-B (1.5') 2/21/2014	TP-B (5') 2/21/2014	TP-C (4') 2/21/2014	TP-D (8') 2/21/2014	TP-G (2') North 2/21/2014
1-Methylnaphthalene[1]	90-12-0	NA	NA	0.17 J	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene	91-57-6	NA	NA	0.23 J	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
2,4-Dimethylphenol	105-67-9	NA	NA	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
2-Methylphenol	95-48-7	NA	500	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
4-Methylphenol	106-44-5	NA	500	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Acenaphthene	83-32-9	20	500	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Acenaphthylene	208-96-8	100	500	U	U	U	U	U	U	U	U	U	U	U	U	U	U	2.85 J
Anthracene	120-12-7	100	500	0.087 J	U	U	U	U	U	U	U	U	U	U	U	U	U	13.7
Benz(a)anthracene	56-55-3	1	5.6	0.39 J	U	U	U	U	U	U	U	U	2.95 J **A**	U	U	U	7.8 **AB**	9.95 **AB**
Benzo(a)pyrene	50-32-8	1	1	0.45	U	U	U	U	U	U	U	U	2.4 J **AB**	U	U	U	10.3 **AB**	9.98 **AB**
Benzo(b)fluoranthene	205-99-2	1	5.6	0.67	U	U	U	U	U	U	U	U	2.16 J **A**	U	U	U	9.7 **AB**	12.9 **AB**
Benzo(g,h,i)perylene	191-24-2	100	500	0.38 J	U	U	U	U	U	U	U	U	U	1.94	0.29 J	U	9.64	9.53
Benzo(k)fluoranthene	207-08-9	0.8	56	0.21 J	U	U	U	U	U	U	U	U	2.13 J **A**	U	U	U	9.19 **A**	8.03 **A**
Bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	U	0.09 J	0.11 J	U	U	0.078 J	U	U	U	NT	NT	NT	NT	NT	NT
Butylbenzylphthalate	85-68-7	NA	NA	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Carbazole	86-74-8	NA	NA	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Chrysene	218-01-9	1	56	0.54	U	U	U	U	U	U	U	U	3.08 J **A**	U	0.253 J	U	12.3 **A**	13 **A**
Dibenz(a,h)anthracene	53-70-3	0.33	0.56	0.098 J	U	U	U	U	U	U	U	U	U	U	U	U	U	3.08 J **AB**
Dibenzofuran	132-64-9	7	350	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Di-n-butylphthalate	84-74-2	NA	NA	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Fluoranthene	206-44-0	100	500	0.63	U	U	U	U	U	U	U	U	6.38	U	U	U	22	13.9
Fluorene	86-73-7	30	500	U	U	U	U	U	U	U	U	U	U	U	U	U	U	2.01 J
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	0.3 J	U	U	U	U	U	U	U	U	U	U	U	U	7.13 **AB**	9.07 **AB**
Naphthalene	91-20-3	12	500	0.15 J	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Phenanthrene	85-01-8	100	500	0.32 J	U	U	U	U	U	U	U	U	6.41	U	0.258 J	U	9.62	11.9
Phenol	108-95-2	0.33	500	U	U	U	U	U	U	U	U	U	NT	NT	NT	NT	NT	NT
Pyrene	129-00-0	100	500	0.65	U	U	U	U	U	U	U	U	5.94	U	0.283 J	U	18.2	14.9
Total TICs				9.78 NJ	3.2	3.6	8.58	3.53	3.19	9.34	15.47	5.91	43.67	11.402	6.213	381.2	59.02	115.37
SVOCs + TICs				15.055	3.29	3.71	8.58	3.53	3.268	9.34	15.47	5.91	75.12	13.342	7.297	381.2	174.9	250.17

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	TP-G (2') South 2/21/2014	TP-I (5") 2/21/2014	TP-J (2') 2/21/2014	TP-01 (2') 7/30/2014	TP-02 (2.5') 7/30/2014	TP-03 (6') 7/29/2014	TP-04 (1') 7/30/2014	TP-05 (1') 7/29/2014	TP-07 (3') 7/29/2014	TP-08 (3') 7/30/2014	TP-08 (12') 7/31/2014	TP-11 (2-3') 7/30/2014	TP-12 (2.5') 7/30/2014	TP-13 (9') 7/29/2014	TP-13 (12') 7/29/2014
1-Methylnaphthalene[1]	90-12-0	NA	NA	NT	NT	NT	0.3 J	0.13 J	U	0.42	U	U	U	U	0.29 J	0.24 J	0.14 J	U
2-Methylnaphthalene	91-57-6	NA	NA	NT	NT	NT	0.21 J	0.11 J	U	0.34 J	U	U	U	U	0.28 J	0.2 J	0.16 J	U
2,4-Dimethylphenol	105-67-9	NA	NA	NT	NT	NT	U	U	U	U	U	U	0.13 J	U	0	U	U	U
2-Methylphenol	95-48-7	NA	500	NT	NT	NT	U	U	U	U	U	U	0.16 J	U		U	U	U
4-Methylphenol	106-44-5	NA	500	NT	NT	NT	U	U	U	U	U	U	0.27 J	U	0.15 J	U	U	U
Acenaphthene	83-32-9	20	500	6.92 J	U	U	0.77	U	U	0.11 J	U	U	U	U	0.34 J	0.38 J	0.24 J	U
Acenaphthylene	208-96-8	100	500	U	U	U	0.42	U	U	U	U	0.084 J	U	U	U	0.15 J	0.16 J	U
Anthracene	120-12-7	100	500	21.9	U	2.78	2.3	0.16 J	U	0.22 J	U	0.18	0.18 J	U	0.82	0.77	1.1	0.38 J
Benzo(a)anthracene	56-55-3	1	5.6	28.6 **AB**	51.8 J **AB**	5.45 **A**	5.2 **A**	3.1 J **A**	U	0.39	U	0.51	0.34	U	1.4 **A**	2 **A**	1.9 NJ **A**	0.98
Benzo(a)pyrene	50-32-8	1	1	22.2 **AB**	88.1 J **AB**	4.53 **AB**	3.6 **AB**	3.3 J **AB**	U	0.21 J	0.089 J	0.56	0.36	U	2.5 **AB**	1.7 **AB**	1.9 **AB**	1.9 **AB**
Benzo(b)fluoranthene	205-99-2	1	5.6	19.8 **AB**	U	4.4 **A**	4.3 **A**	2.1 J **A**	U	0.32 J	U	0.66	0.47	U	2 **A**	2.3 **A**	2.3 **A**	1.3 **A**
Benzo(g,h,i)perylene	191-24-2	100	500	13.6	124 **A**	2.83	2.5	3.3 J	0.66	0.15 J	0.18 J	0.72	0.18	U	3	1.1	U	1.9
Benzo(k)fluoranthene	207-08-9	0.8	56	19 **A**	U	3.44 **A**	1.9 **A**	1.6 J **A**	U	0.11 J	U	0.25 J	0.21	U	0.44 J	0.81 **A**	0.71	0.38 J
Bis(2-ethylhexyl)phthalate	117-81-7	NA	NA	NT	NT	NT	U	U	U	U	U	U	U	U	U	U	U	U
Butylbenzylphthalate	85-68-7	NA	NA	NT	NT	NT	U	U	U	U	U	U	U	U	U	U	0.48	1.2
Carbazole	86-74-8	NA	NA	NT	NT	NT	0.58	U	U	U	U	0.088 J	U	U	0.34 J	0.34 J	0.53	0.29 J
Chrysene	218-01-9	1	56	28.1 **A**	79.8 J **AB**	5.56 **A**	4.5 **A**	3.1 J **A**	U	0.41	U	0.6	0.41	U	2 **A**	2.1 **A**	1.7 **A**	1.6 **A**
Dibenz(a,h)anthracene	53-70-3	0.33	0.56	5.47 J **AB**	U	1.21 J **AB**	0.75 **AB**	0.57 J **AB**	U	U	U	0.13 J	U	U	0.66 **AB**	0.31 J	0.41 **A**	U
Dibenzofuran	132-64-9	7	350	NT	NT	NT	0.47	U	U	0.18 J	U	U	U	U	0.33 J	0.26 J	0.34 J	U
Di-n-butylphthalate	84-74-2	NA	NA	NT	NT	NT	U	U	U	U	U	U	0.46 J	U	0.38 J	U	0.53	0.18 J
Fluoranthene	206-44-0	100	500	61.5	U	12.2	10 D	0.34 J	U	0.6	U	0.88	0.75	U	2.9	4.1	3.8	1.6
Fluorene	86-73-7	30	500	11.7	U	1.29 J	0.86	U	U	0.11 J	U	U	U	U	0.42 J	0.34 J	0.42	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	16.3 **AB**	U	2.6 **A**	2.6 **A**	1 **A**	U	0.15 J	U	0.43	0.22	U	1.4 **A**	1.2 **A**	U	0.6 J **A**
Naphthalene	91-20-3	12	500	8.87	U	0.946 J	0.18 J	U	U	0.16 J	U	U	U	U	0.47 J	0.19 J	0.28 J	U
Phenanthrene	85-01-8	100	500	73.9	U	12.1	8.5 D	0.75 J	U	1.2	U	0.7	0.53 J	U	3.5	3.7	3.7	1.3
Phenol	108-95-2	0.33	500	NT	NT	NT	U	U	U	U	U	U	0.75 **A**	U	U	U	U	U
Pyrene	129-00-0	100	500	46.1	111 **A**	9.26	7.4 D	5.7 J	U	0.49	U	0.75	0.49	U	2.1	3	2.2	1.1
Total TICs				183.29	1,708	41.58	26.28	79.9	5.37	18.12	4.97	6.41	4.81	8.7	23.85	9.75	15.79	10.45
SVOCs + TICs				567.25	2163	110.18	83.62	105.16	6.03	23.69	5.239	12.952	10.72	8.7	49.57	34.94	38.79	25.16

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

[1] Analyte not validated.

D = Diluted Sample NA = Not Available NT = Not Tested J = Estimated Value U = Not Detected NJ = The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive

A = Exceeds Unrestricted Use SCO **B (Highlighted Value)** = Exceeds Restricted Commercial Use SCO

TABLE 8C
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED PESTICIDE/HERBICIDE/PCBS IN SOIL/FILL SAMPLES

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	TB-104 (24') 6/12/2014	TB-105 (8-10') 6/11/2014	TP-B (1.5') 2/21/2014	TP-C (4') 2/21/2014	TP-01 (2') 7/30/2014	TP-02 (2.5') 7/30/2014	TP-03 (6') 7/29/2014	TP-04 (1') 7/30/2014	TP-05 (1') 7/29/2014	TP-07 (3') 7/29/2014	TP-08 (3') 7/30/2014	TP-08 (12') 7/31/2014	TP-11 (2-3') 7/30/2014	TP-12 (2.5') 7/30/2014	TP-13 (9') 7/29/2014	TP-13 (12') 7/29/2014
4,4´-DDD	72-54-8	0.0033	92	U J	U	NT	NT	0.0064 J **A**	U	U J	0.011 P, NJ **A**	U	U	U J	U J	U	U	U	U
4,4´-DDE	72-55-9	0.0033	62	U J	U	NT	NT	U	U	U J	U J	U	U	0.006 P, J **A**	U J	U	U	U J	U
4,4´-DDT	50-29-3	0.0033	47	U J	U	NT	NT	U J	0.014 J **A**	U J	U J	U J	0.012 J **A**	U J	U J	U J	U	0.024 J **A**	U J
Aldrin	309-00-2	0.005	0.68	U J	U	NT	NT	U	U	U J	U J	U	U	U J	U J	U	U	U J	U
alpha-BHC	319-84-6	0.02	3.4	U J	U	NT	NT	U	0.012 J	U J	U J	U	U	U J	U J	U	U	0.0051 J	U
alpha-Chlordane	5103-71-9	0.094	24	U J	U	NT	NT	U	0.009 P, NJ	U J	U J	U	U J	U J	U J	U	U	U J	U J
Dieldrin	60-57-1	0.005	1.4	U J	U	NT	NT	U	U	U J	U J	U	U J	U J	U J	U	U	U	U
Endosulfan II	33213-65-9	2.4	200	U	U	NT	NT	U	U	U J	U J	U	U	U J	U J	U	U	U J	U
Endosulfan sulfate	1031-07-8	2.4	200	U J	U	NT	NT	U J	0.047 J	U J	U J	U J	0.0037 R	U J	U J	U J	0.018 P, J	U J	U J
Endrin aldehyde	7421-93-4	NA	NA	U J	U	NT	NT	U	U	U J	0.0075 P, NJ	U	U	U J	U J	U	U	U J	0.59 J
Endrin ketone	53494-70-5	NA	NA	U J	U	NT	NT	0.01 J	U	U J	U J	U	U	U J	U J	U	U	U J	U J
gamma-BHC (Lindane)	58-89-9	0.1	9.2	U J	U	NT	NT	U	U	U J	U J	U	U J	U J	U J	U	U	U J	U
gamma-Chlordane	5103-74-2	NA	NA	U J	U	NT	NT	0.0027 P, NJ	U	U J	U J	U	U	U J	U J	U	U	U	U J
Heptachlor epoxide	1024-57-3	NA	NA	U J	U	NT	NT	U	U	U J	U J	U	U	U J	U J	U	U	0.0051 P, J	U
Polychlorinated biphenyls	1336-36-3	0.1	1	U	U	U J	U J	U	U	U	U	U	0.056 P, J	U	U	U	U J	0.12 **A**	0.2 **A**

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

NT = Not Tested

NJ = The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R = The sample results are rejected due to deficiencies in meeting quality control limits

J = Estimated Value

NA = Not Available

P = Lower of Two Values Reported From Primary And Confirmation Analyses When > 25% Difference Detected

U = Not Detected

A = Exceeds Unrestricted Use SCO

TABLE 8D
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF TAL METALS AND CYANIDE IN SOIL/FILL SAMPLES

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	MW-G (3') 6/13/2014		TB-102 (2') 6/11/2014		TB-103 (24') 6/12/2014		TB-104 (24') 6/12/2014		TB-105 (8-10') 6/11/2014		TB-106 (20') 6/11/2014		TB-106a (24') 6/19/2014		TB-107 (24') 6/13/2014		TB-108 (24') 6/12/2014		TP-A (3') 2/21/2014		TP-B (1.5') 2/21/2014		TP-B (5') 2/21/2014		TP-C (4') 2/21/2014		TP-G (2') North 2/21/2014	
Aluminum	7429-90-5	NA	NA	6870 *		19300 *		5300 *		5930 *		6340 *		3940 *		3900		5210 *		2710 *		10,900		3,820		9,510		7,610		5,470	
Antimony	7440-36-0	NA	NA	0.82 b,N		U N		0.4 b,N		U N		0.45 b,N		0.5 b,N		U		U N		0.5 b,N		U		U		U		U		U	
Arsenic	7440-38-2	13	16	29.4	AB	8.1		7.2		8.7		6.3		4.6		5.7		11.1		7.7		60.2	AB	14.3	A	15.1	A	7.64		26.3	AB
Barium	7440-39-3	350	400	156		55.5		76.5		44.8		32.4		22.7		49 b		38.8		26.9		161		89.9		99.2		193		86.7	
Beryllium	7440-41-7	7.2	590	0.65		0.5		0.2 b		0.22 b		0.26		0.19 b		0.17 J		0.18 b		0.14 b		2.82		0.537 J		0.962		U		0.534 J	
Cadmium	7440-43-9	2.5	9.3	0.22 b		0.14 b		0.12 b		0.094 b		0.13 b		0.16 b		0.036 J		0.076 b		0.09 b		4.77	A	3.03	A	3.16	A	4.2	A	3.7	A
Calcium	7440-70-2	NA	NA	5490		2020		68000		52700		52000		27800		38000		23900		54500		15,800		2,610		6,150		78,000		5,870	
Chromium	7440-47-3	30	1,500	13.1		19.6		7.1		7.6		8.1		4.4		4.8		4.9		3.7		30.7	A	11.7		13.1		18		12	
Cobalt	7440-48-4	NA	NA	4.4		11.6		4.1		4.5		4.4		4.6		3.7		4.6		2.5		13.8		6.33		9.92		3.37 J		6.27 J	
Copper	7440-50-8	50	270	215	A	18.8		21		20.6		22.7		13.9		18		19.9		15.9		105	A	130	A	59	A	20.7		41.9	
Iron	7439-89-6	NA	NA	19100 *		25100 *		13000 *		12700 *		12900 *		11200 *		9400		12300 *		8010 *		31,300		22,400		25,600		9,420		28,300	
Lead	7439-92-1	63	1000	388	A	16.7		7.2		7.2		8.1		4.6		7.2		9.1		9.1		119	A	126	A	139	A	280	A	85.7	A
Magnesium	7439-95-4	NA	NA	1000 *		3900 *		6770 *		9820 *		6610 *		2560 *		5600 b		3500 *		6110 *		4,910		865		1,360		3,520		1,140	
Manganese	7439-96-5	1600	10,000	78.9		601		713		557		634		394		620		371		854		549		163		896		300		290	
Mercury	7439-97-6	0.18	2.8	0.2	A	0.029 b		U		0.0036 b		0.0031 b		U		0.0039 J		U		U		0.159		0.055		0.121		0.362	A	0.299	A
Nickel	7440-02-0	30	310	12 *		17.7 *		10.5 *		10.9 *		11.4 *		9.9 *		9		10.6 *		5.7 *		27.7		16.7		25.1		9.65		15.6	
Potassium	7440-09-7	NA	NA	602		1630		578		704		737		387		460		494		320		1,670		317		745		797		595	
Selenium	7782-49-2	3.9	1,500	4.1 b	A	U		U		U		U		0.82 b		U		U		U		U		U		U		U		U	
Silver	7440-22-4	2	1,500	0.35		0.12		U		U		U		U		U		U		U		U		U		U		U		U	
Sodium	7440-23-5	NA	NA	357		217		78.8		76		74.9		35.1 b		63 b		45.4 b		99		326 J		U		U		170 J		U	
Thallium	7440-28-0	NA	NA	0.9 b		U		0.57 b		0.43 b		U		U		U		U		U		U		U		U		U		U	
Vanadium	7440-62-2	NA	NA	16.6 *		30.6 *		8.1 *		8.4 *		10.2 *		5.9 *		6.4		7.9 *		6.1 *		26.6		15.7		17		53.3		17.6	
Zinc	7440-66-6	109	10,000	87.1 N*		67.7 N*		63.4 N*		58.1 N*		94.8 N*		158 N*	A	46 b		55.4 N*		38.9 N*		1,160	A	274	A	459	A	882	A	220	A
Total Cyanide	NA	27	27	NT		NT		NT		U		U		NT		NT		NT		NT		NT		NT		NT		NT		NT	

Contaminant	CAS Number	A Unrestricted Use (SCO)	B Restricted Commercial Use (SCO)	TP-G (2') South 2/21/2014		TP-J (2') 2/21/2014		TP-01 (2') 7/30/2014		TP-02 (2.5') 7/30/2014		TP-03 (6') 7/29/2014		TP-04 (1') 7/30/2014		TP-05 (1') 7/29/2014		TP-07 (3') 7/29/2014		TP-08 (3') 7/30/2014		TP-08 (12') 7/31/2014		TP-11 (2-3') 7/30/2014		TP-12 (2.5') 7/30/2014		TP-13 (9') 7/29/2014		TP-13 (12') 7/29/2014	
Aluminum	7429-90-5	NA	NA	5,030		5,430		4310		1910		12900		1170		18400		8710		7110		21700		5380		9260		6550		6760	
Antimony	7440-36-0	NA	NA	U		U		0.76 b		1.9		2.2		0.67 bN		6.2		1.4 N, J		U		U N		1.4 b		0.7 bN		1.8 N		2.2 N	
Arsenic	7440-38-2	13	16	27.4	AB	14.3	A	9.9		7.6		23.7	AB	39.8	AB	25	AB	10.2		22.3	AB	6.4		6.5		62.2	AB	12.3		25.2	AB
Barium	7440-39-3	350	400	59.4		179		207		240		126		78.7 E*		436	AB	872 E*	AB	196		74.2 E*		101		160 E*		99.3 E*		606 E*	AB
Beryllium	7440-41-7	7.2	590	0.532 J		0.998		0.19 b		0.054 b		0.44		0.28		0.19 b		0.16 b		1.1		0.87		0.18 b		0.57		0.12 b		0.18 b	
Cadmium	7440-43-9	2.5	9.3	4.56	A	2.83	A	0.28 b		0.53		0.61		0.21 b*		16.3	AB	0.78 *, J		2.8	A	1.1 *		0.51		0.41 *		1.6 *		7.3 *	A
Calcium	7440-70-2	NA	NA	3,220		3,770		22800		451		3490		1670		4260		77300		5380		10400		601		2340		64000		61200	
Chromium	7440-47-3	30	1,500	11.5		14.1		9.1		81.8	A	22.5		7.2 E		100	A	12 E		16.8		51.4 E	A	103	A	18 E		22.9 E		52.7 E	A
Cobalt	7440-48-4	NA	NA	6.33		5.67 J		4.3		0.95 b		5.5		1.7 bE		28.3		3.8 E, J		5.5		4.9 E		2.2 b		6 E		4.9 E		16.4 E	
Copper	7440-50-8	50	270	40.6		166	A	40.4		38.2		202	A	21.1		357	AB	53.7	A	111	A	14		41.5		375	AB	54.9	A	271	AB
Iron	7439-89-6	NA	NA	37,000		18,700		13000		1700		19000		12400 E*		239000		17800 E*, J		16300		16400 E*		2550		22800		41500 E*		202000 E*	
Lead	7439-92-1	63	1000	48.4		100	A	437	A	635	A	327	A	35.9 E		1150	AB	1200 E, J	AB	296	A	102 E	A	656	A	1470 E	AB	95.1 E	A	347 E	A
Magnesium	7439-95-4	NA	NA	1,090		718		1670		87.4		1720		201 E		756		7320 E		949		18700 E		196		1620 E		7260 E		7840 E	
Manganese	7439-96-5	1600	10,000	269		120		271		10.6		318		25.9 E		2800	A	455 E		78.2		337 E		22.1		106 E		456 E		1190 E	
Mercury	7439-97-6	0.18	2.8	0.0705		0.0408		1.2	A	0.22	A	0.16		0.25	A	0.06		0.069		0.082		0.03 B		0.58	A	0.31	A	0.3	A	0.2	A
Nickel	7440-02-0	30	310	14.5		19.3		8.1		9.8		14.4		5 E		68	A	10.1 E, J		41.1	A	13.3 E		13.8		28.5 E		14.2 E		37.3 E	A
Potassium	7440-09-7	NA	NA	529		545		502		45.1 b		545		259		313		747		601		2070		74.1 b		1220		660		1110	
Selenium	7782-49-2	3.9	1,500	U		U		0.9 b		U		2.9		2.5		U		U		2.2		3.4		U		8.7	A	U		U	
Silver	7440-22-4	2	1,500	U		U		U		0.3 b		U		0.1 b		U		0.14 b		U		U		0.45 b		0.4 b		0.21 b		3.7	A
Sodium	7440-23-5	NA	NA	U		192 J		175		12.3 b		34.8 b		72		75.5		142		181		922		20.1 b		1790		153		174	
Thallium	7440-28-0	NA	NA	U		U		U		U		U		1.1		U		0.88 b		1.1 b		U		U		0.68 b		0.46 b		U	
Vanadium	7440-62-2	NA	NA	17.7		19.5		10.2		4.2		17.2		15.1 E*		5.2		16.9 E*		21.8		43.6 E*		5.7		27.6 E*		21.3 E*		82.2 E*	
Zinc	7440-66-6	109	10,000	280	A	96		180	A	376	A	323	A	22 NE*		8800	A	369 NE*, J	A	387	A	71.8 NE*		467	A	172 NE*	A	225 NE*	A	925 NE*	A
Total Cyanide	NA	27	27	NT		NT		U		4.4 J		U		U N		U		1 bN, J		U		0.94 bN, J		3.3 J		U N		0.68 bN, J		1.3 N,J	

Values are in milligrams per kilogram (mg/kg) or parts per million (ppm)

SCOs are as referenced in 6 NYCRR Part 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006

b = Trace Concentration Below Reporting Limit And Equal To Or Above Detection Limit J = Estimated Value E = Estimated Concentration N = Matrix Spike Recovery Falls Outside Control Limit NA = Not Available U = Not Detected NT = Not Tested * = RPD Duplicate Analyses Outside Control Limit

A = Exceeds Unrestricted Use SCO **B (Highlighted Value)** = Exceeds Restricted Commercial Use SCO

TABLE 9A
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED VOLATILE ORGANIC COMPOUNDS (VOCS) IN GROUNDWATER SAMPLES

Contaminant	CAS Number	X Groundwater Standard or Guidance Value	MW-A		MW-B		MW-C		MW-D		MW-E		MW-F		MW-G	
			6/27/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/25/14	11/05/14	6/25/14	11/06/14	6/26/14	11/06/14
tert-Butylbenzene[1]	98-06-6	5	1.4 J	U	U	U	U	U	1.1 J	U	U	U	U	U	U	U
Total VOCs			1.4	U	0	U	0	U	1.1	U	0	U	0	U	0	0
Total TICs			7	U	6.3	U	7.4	U	8.4	U	9.5	U	7.9	U	100.5	201.9
Total VOCs and TICs			8.4	U	6.3	U	7.4	U	9.5	U	9.5	U	7.9	U	100.5	201.9

Notes

µg/L = micrograms per Liter or parts per billion (ppb).

Groundwater Standards or Guidance Values as referenced in New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated

TIC = Tentatively Identified Compound

U = The analyte was analyzed for, but was not detected above the associated reported quantitation limit. Refer to the analytical laboratory report for the associated reported quantitation lim

NA = Not Available

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the method detection limit. The concentration given is an approximate value.

(1) Analyte not validated.

TABLE 9B
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCS) IN GROUNDWATER SAMPLES

Contaminant	CAS Number	X Groundwater Standard or Guidance Value	MW-A		MW-B		MW-C		MW-D		MW-E		MW-F		MW-G	
			6/27/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/25/14	11/05/14	6/25/14	11/06/14	6/26/14	11/06/14
Bis(2-chloroethyl)ether	111-44-4	NA	U	U	U	U	U	U	U	U	U	U	U	U	1 J	U
Total SVOCs			U	U	U	0	U	U	U	U	U	0	U	U	1	0
Total TICs			17.7	90.2	16.4	6.8	18.8	5	12.4	4.6	16.8	19.4	38.4	9.7	105	53.8
Total SVOCs and TICs			17.7	90.2	16.4	6.8	18.8	5	12.4	4.6	16.8	19.4	38.4	9.7	106	53.8

Notes

µg/L = micrograms per Liter or parts per billion (ppb).

Groundwater Standards or Guidance Values as referenced in New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table

TIC = Tentatively Identified Compound

U = The analyte was analyzed for, but was not detected above the associated reported quantitation limit. Refer to the analytical laboratory report for the associated reported quantitation lim

NA = Not Available

J = Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than the method detection limit. The concentration given is an approximate value.

TABLE 9C
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF PESTICIDES AND PCBS IN GROUNDWATER SAMPLES

Contaminant	X Groundwater Standard or Guidance Value	MW-A 6/27/14	MW-B 6/26/14	MW-C 6/26/14	MW-D 6/26/14	MW-E 6/25/14	MW-F 6/25/14	MW-G 6/26/14
Pesticides	NA	U	U	U	U J	U	U	U
PCBs	0.09	U J	U	U	U J	U	U	U

Notes

µg/L = micrograms per Liter or parts per billion (ppb).

Groundwater Standards or Guidance Values as referenced in New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

U = The analyte was analyzed for, but was not detected above the associated reported quantitation limit. Refer to the analytical laboratory report for the associated reported quantitation limit

NA = Not Available

UJ = The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise

TABLE 9D
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043

SUMMARY OF DETECTED TAL METALS IN GROUNDWATER SAMPLES

Contaminant	X Groundwater Standard or Guidance Value	MW-A		MW-B		MW-C		MW-D		MW-E		MW-F		MW-G	
		6/27/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/26/14	11/05/14	6/25/14	11/05/14	6/25/14	11/06/14	6/26/14	11/06/14
Aluminum	NA	U	U	U	U	82.6 b	U	3040	U	U	U	U	U	175 b	U
Antimony	3	U	U	U	U	9.5 b X	U	U	U	U	U	U	U	U	U
Arsenic	25	U	U	4.6 b	U	U	U	31.5 X	63.4 X	U	U	5.0 b	U	9.0 b	U
Barium	1,000	216	204	191 b	290	80.6 b	101.0 b	1530 X	2490 X	103 b	222	282	330	955	786
Calcium	NA	81800	103000	139000	149000	204000	222000	139000	141000	123000	154000	149000	119000	178000	145000
Chromium	50	U	U	U	U	U	U	3.7 b	U	0.77 b	U	U	U	U	U
Cobalt	NA	U	U	U	1.60 b	5.1 b	3.9 b	4.1 b	U	U	U	U	U	U	U
Copper	200	U	U	U	U	4.5 b	4.2 b	16.8 b	U	U	U	U	U	U	U
Iron	300	13200 X	11800 X	64.3 b	2460.0 X	1630 X	3450 X	11700 X	12600 X	179 b	96.3 b	U	44.8 b	6130 X	4850 X
Lead	25	U	U	U	U	5.6	U	8.9 b	U	U	U	U	U	U	U
Magnesium	35,000	4460	5260	21700	23400	18700	23100	26000	26000	15900	24300	21900	17600	19600	15800
Manganese	300	673 X	909 X	1580 X	2330 X	2320 X	2500 X	3650 X	2740 X	23.6 b	444.0 X	183	544 X	2140 X	1850 X
Nickel	100	U	U	5.2 b	3.4 b	10.2	6.4 b	9.5 b	1.1 b	0.85	1.9 b	U	0.87 b	U	U
Potassium	NA	5330	5020 E,J-	3880	4200	6320	6330 E	4490	4260 E	3230	4210 E	4100	4270 E	3290	3560 E
Selenium	10	14.9 b X	U	U	U	35.2 X	U	12.3 b X	U	U	U	U	U	U	U
Sodium	20,000	59800 X	34500 X	74900 X	100000 X	65200 X	105000 X	142000 X	153000 X	74800 X	128000 X	102000 X	75900	70800 X	55000 X
Thallium	0.5	U	U	U	U	U	U	U	U	U	7.6 b X	U	U	U	U
Vanadium	NA	U	U	U	1.2 b	U	U	4.8 b	U	U	U	U	U	U	U
Zinc	2,000	U	U	U	U	22.5 b	U	54.1	U	5.9 b	U	U	U	U	U

Notes

µg/L = micrograms per Liter or parts per billion (ppb).

Groundwater Standards or Guidance Values as referenced in New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Series (TOGS) 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000.

U = The analyte was analyzed for, but was not detected above the associated reported quantitation limit. Refer to the analytical laboratory report for the associated reported quantitation limit

J- = The analyte was positively identified; however, the associated numerical value is an estimated quantity that may be biased low.

b = indicates a concentration below thereporting limit and equal to or above the detection limit

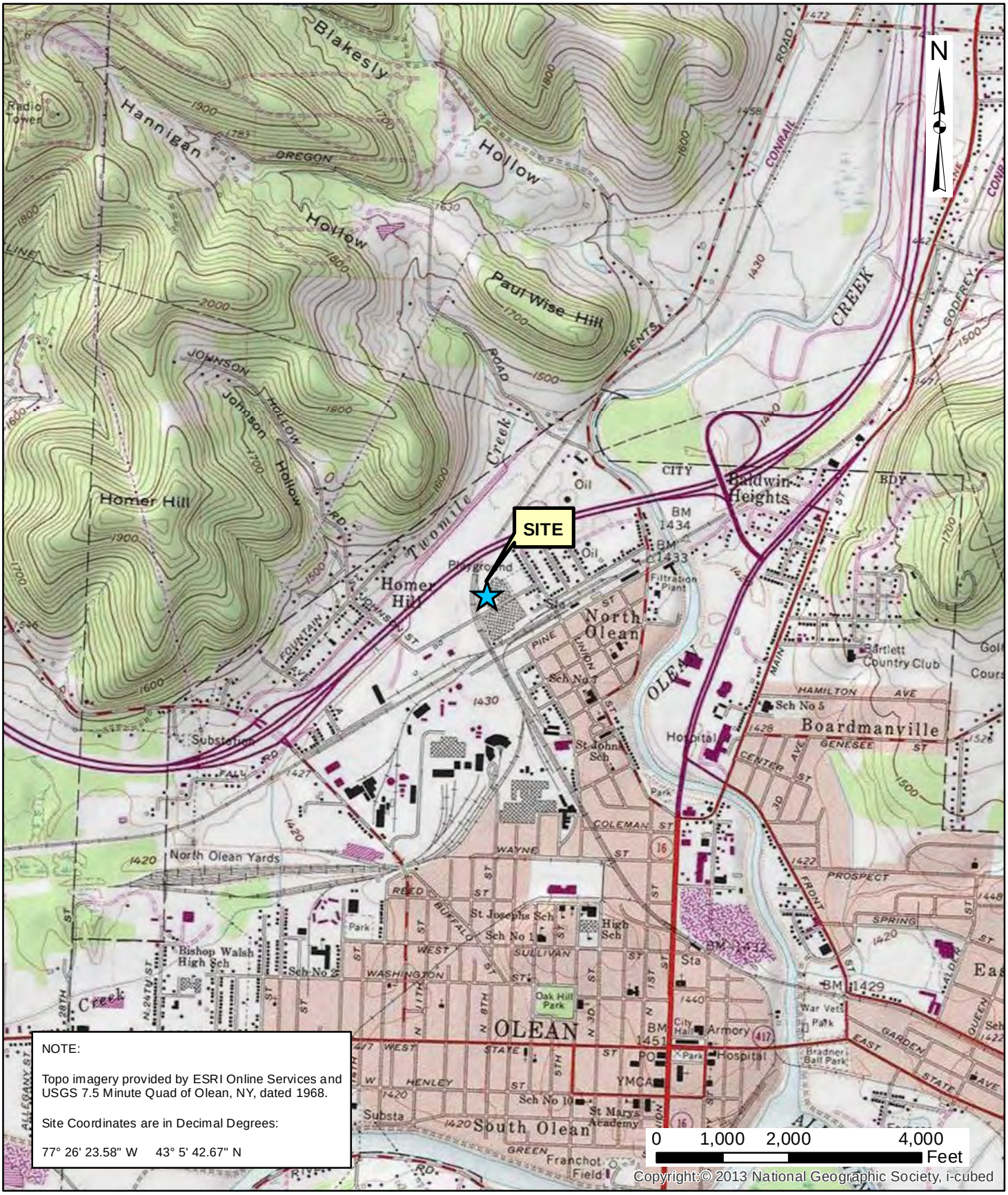
E = an estimated concentration due to the presence of interferences

NA = Not Available

31.5 X = Exceeds Groundwater Standard or Guidance Value

FIGURES

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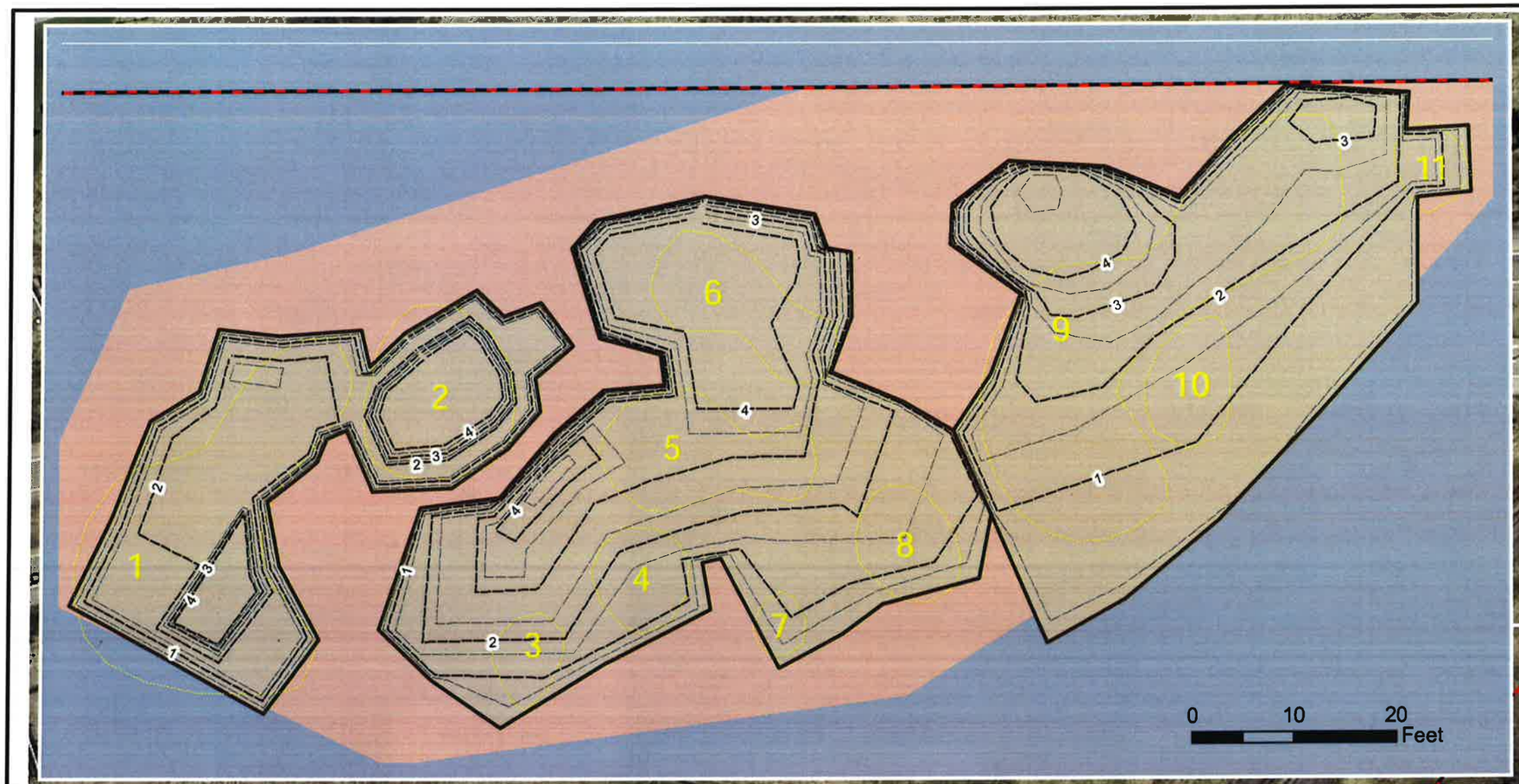
NOTE:

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Olean, NY, dated 1968.

Site Coordinates are in Decimal Degrees:

77° 26' 23.58" W 43° 5' 42.67" N

Date: 09-23-2019 Drawn By: CAH Scale: AS NOTED	day **DAY ENVIRONMENTAL, INC.** **Environmental Consultants** **Rochester, New York 14606** **New York, New York 10170**	Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK BCP SITE NO. C905043 FINAL ENGINEERING REPORT Drawing Title: Project Locus Map	Project No.: 4884S-13 FIGURE 1





NOTES:

Excavation limits were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. Excavation depth contours based are on measurements made in the field, and in reference to the ground surfaces adjacent to the excavations. These locations and depths are to be considered approximate.

Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.

Legend

- Location of metal waste fill stockpile, September 20, 2017 to January 9, 2018
- Extent of excavations completed September 20-22, 2017
- Excavation Depth, 1 ft. Contour Interval
- Excavation Depth, 1/2 ft. Contour Interval
- Extent of eleven "distinct" magnetic anomalies, identifed during RI
- Extent of magnetic anomaly area, identified during RI
- BCP Site 202 Franklin Street Property Boundary

0 50 100 200 Feet

DESIGNED BY	RLK
DATE	02-2018
DRAWN BY	CAH
DATE DRAWN	02-2018
SCALE	AS NOTED
DATE ISSUED	02-01-2018

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

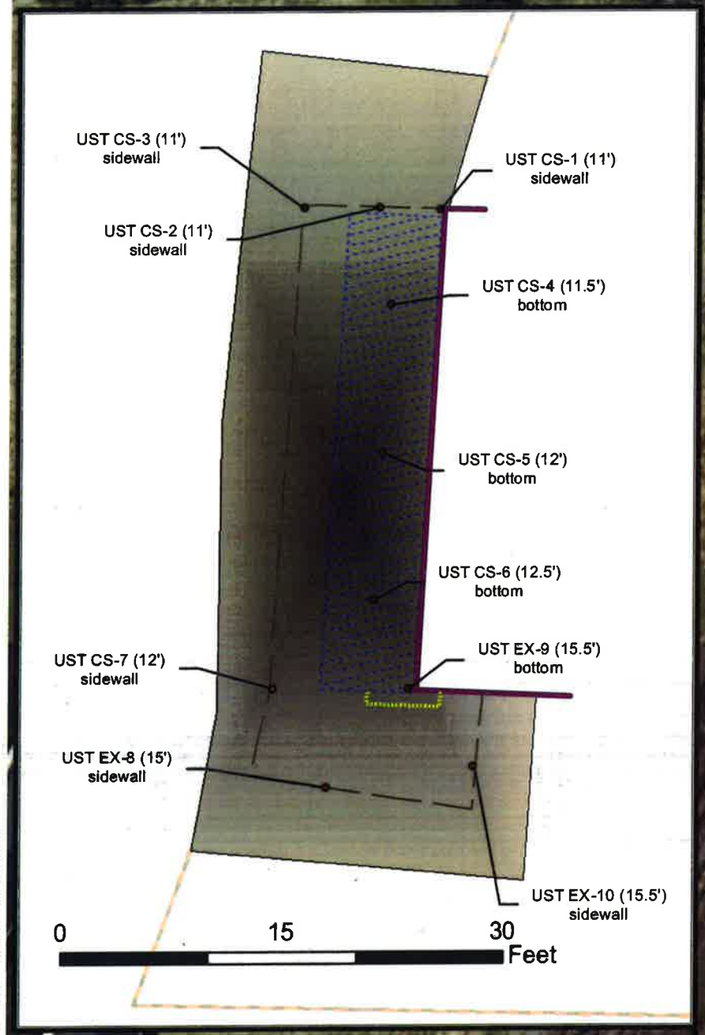
BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan Depicting Removal Extents of Metal Waste Fill Area

Project No.
4884S-13

FIGURE 2

Last Date Saved: 23 Sep 2019 Document Path: E:\GIS Mapping\4884S-13\Sept202Franklin\FER4884S - 02-Metal Waste Exc Plan.mxd



Legend

- Location of UST Excavation soil stockpile, September 27, 2017 to January 9, 2018
- Extent of soils excavated September 27 to 28, 2017
- Former location of the UST removed September 26, 2017
- Partial extent of concrete foundation wall
- Former location of apparent product supply pipe
- Extent of excavation base
- Confirmatory soil sample location
- BCP Site 202 Franklin Street Property Boundary

NOTE:

Excavation, UST and confirmatory sample locations were determined using measurements to known locations. These locations are to be considered approximate.

Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.

UST Removal Area

0 30 60 120 Feet

FRANKLIN ST

DESIGNED BY	DATE
RLK	02-2018
DRAWN BY	DATE DRAWN
CAH	02-2018
SCALE	DATE ISSUED
AS NOTED	02-01-2018

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan Depicting UST Removal Area

Project No.
4884S-13

FIGURE 3

Last Date Saved: 23 Sep 2019 Document Path: E:\GIS Mapping\4884S-13\Salepa\202Franklin\FER\4884S - 03 UST Excavation Plan Rpt.mxd



DESIGNED BY	DATE	DRAWN BY	DATE DRAWN	SCALE	DATE ISSUED
RLK	02-2018	CAH	02-2018	AS NOTED	02-01-2018

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

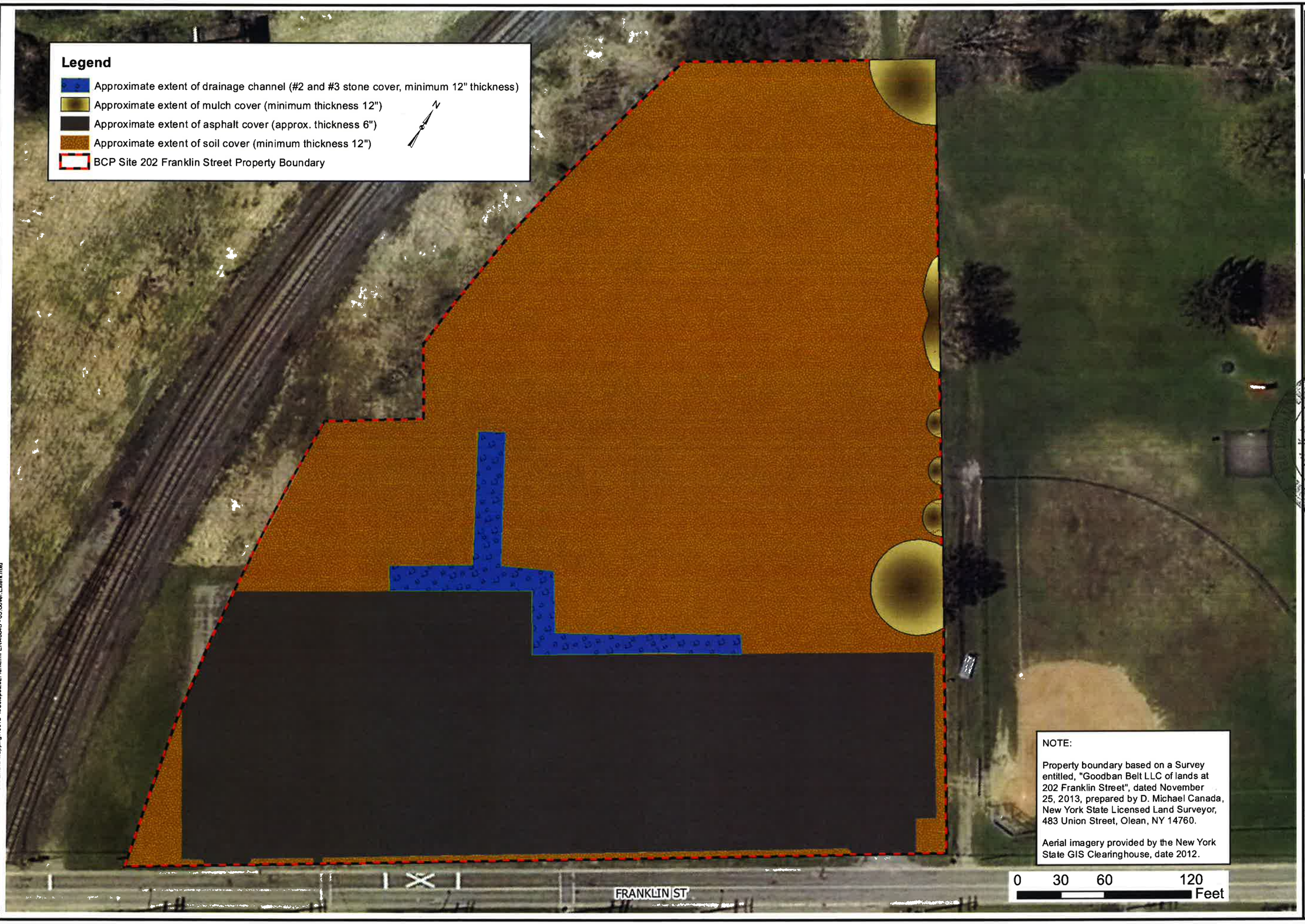
BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan Depicting Extent of Ground Surface Preparation and Interim Soil Cover Placement

Project No.
4884S-13

FIGURE 4

Last Date Saved: 23 Sep 2019 Document Path: E:\GIS Mapping\4884S-13\Solep\202Franklin\FER\4884S - 04.Cover.Extent.2017.mxd



Last Date Saved: 07 Oct 2019 Document Path: E:\GIS Mapping\4884S-13\Mxd\202FranklinFER4884S - 05 Cover Extent.mxd

DESIGNED BY	RLK
DATE	09-2019
DRAWN BY	CAH
DATE DRAWN	09-2019
SCALE	AS NOTED
DATE ISSUED	11-11-2019

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Wide Cover Plan

Project No.
4884S-13

FIGURE 5

Legend

- Approximate monitoring well location
- Approximate surface soil sample location
- Approximate test boring location
- Extent of soil berm constructed July-August 2019 (see note)
- Extent of excavations completed September 20-22, 2017
- Extent of soils excavated September 27 to 28, 2017
- Test pit excavated on February 21, 2014
- Test pit excavated July 2014
- BCP Site 202 Franklin Street Property Boundary

SS-04*
Benzo(a)pyrene - 3.7 ppm
Dibenzo(a,h)anthracene - 0.72 ppm

SS-09*
Benz(a)anthracene - 8.8 ppm
Benzo(b)fluoranthene - 13 ppm
Dibenz(a,h)anthracene- 1.8 ppm
Indeno(1,2,3-cd)pyrene- 7.8 ppm

SS-10*
Benzo(a)pyrene - 4.0 ppm
Benzo(b)fluoranthene - 5.8 ppm
Dibenz(a,h)anthracene - 0.64 ppm

TP-04 (1")
Arsenic- 39.8 ppm

TP-03 (6")
Arsenic- 23.7 ppm

TP-02 (2.5')
Benzo(a)pyrene -3.3 ppm
Dibenzo(a,h)anthracene-0.57 ppm

TP-11 (2-3')
Benzo(a)pyrene -2.5 ppm
Dibenzo(a,h)anthracene-0.66 ppm

SS-05
Arsenic- 18.2 ppm

SS-01
Arsenic- 51.6 ppm
Benzo(a)pyrene - 1.6 ppm

TP-J (2')
Benzo(a)pyrene - 4.53 ppm
Dibenzo(a,h)anthracene - 1.21 ppm

TP-01 (2')
Benzo(a)pyrene - 3.6 ppm
Dibenzo(a,h)anthracene - 0.75 ppm

MW-G (3')
Arsenic- 29.4 ppm

TP-12 (2.5')
Benzo(a)pyrene - 1.7 ppm

TP-A(3')
Arsenic- 26.3 ppm
Benzo(a)pyrene - 2.4 ppm

TP-07 (3')
Barium-872 ppm
Lead-1200 ppm

SS-02
Benzo(a)pyrene - 1.4 ppm

SS-03
Arsenic- 24.8 ppm
Benzo(a)pyrene -1.5 ppm

TP-G North (2')
Arsenic-26.3 ppm
Benz(a)anthracene-9.95 ppm
Benzo(a)pyrene -9.98 ppm
Benzo(b)fluoranthene-12.9 ppm
Dibenz(a,h)anthracene-3.08 ppm
Indeno(1,2,3-cd)pyrene-9.07 ppm

TP-G South (2')
Arsenic-27.4 ppm
Benz(a)anthracene-28.6 ppm
Benzo(a)pyrene -22.2 ppm
Dibenz(a,h)anthracene-5.47 ppm
Indeno(1,2,3-cd)pyrene-16.3 ppm

TP-13 (9')
Benzo(a)pyrene -1.9 ppm

TP-13 (12')
Arsenic-25.2 ppm
Barium-606 ppm
Copper-271 ppm
Benzo(a)pyrene -1.9 ppm

SS-08
Arsenic- 20.4 ppm

TP-I (5')
Benz(a)anthracene-51.8 ppm
Benzo(a)pyrene -88.1 ppm

TP-D (8')
Benz(a)anthracene-7.8 ppm
Benzo(a)pyrene -10.3 ppm
Benzo(b)fluoranthene-9.7 ppm
Indeno(1,2,3-cd)pyrene-7.13 ppm

SS-06
Benzo(a)pyrene - 2.4 ppm

MW-A **MW-B** **MW-C** **MW-D** **MW-E** **MW-F**
TB-101 **TB-102** **TB-103** **TB-104** **TB-105** **TB-106** **TB-106a** **TB-107** **TB-108**
TP-B **TP-C** **TP-E** **TP-F** **TP-H** **TP-06** **TP-09** **TP-10**
SS-07 **SS-09*** **SS-10*** **SS-04*** **SS-11**

0 30 60 120 Feet

NOTE:

Test locatons were determined using a Trimble Geo XH GPS unit with sub-foot accuracy. These locations are to be considered approximate.

Property boundary based on a Surveyentitled, "Goodban Belt LLC of lands at 202 Franklin Street" dated November 25, 2013, prepared by D. Michael Canada,New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.

Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.

*Surface soil from the vicinities of SS-04, SS-09 and SS-10 was relocted to a berm on the northern portion of the Site. Thus, the COC identified in the surface soil during the RI are depicted at the location of the soil berm.

DESIGNED BY	DATE	DRAWN BY	DATE D RAWN	SCALE	DATE ISSUED
RLK	09-2019	CAH	09-2019	AS NOTED	09-24-2019

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

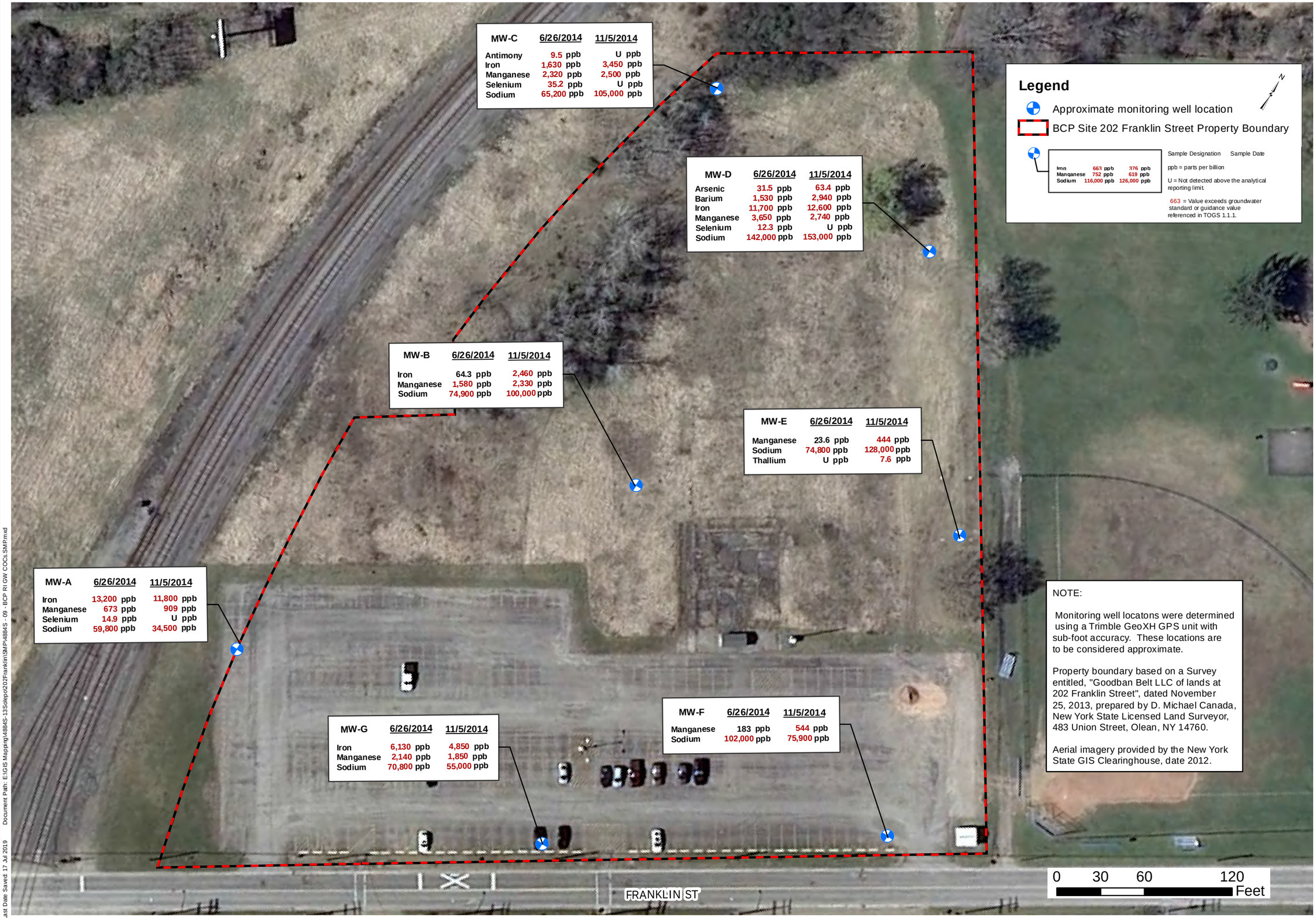
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan Showing Surface and Subsurface Soil Samples Containing Concentrations Exceeding Commercial Use SCO

Project No.
4884S-13

FIGURE 6

Last Date Saved: 24 Sep 2019 Document Path: E:\GIS Mapping\4884S-13Soleno\202FranklinFER\4884S - 06 - BCP RI Soil Commercial COCs.mxd



DESIGNED BY	RLK
DATE	07-2019
DRAWN BY	CAH
DATE DRAWN	07-2019
SCALE	AS NOTED
DATE ISSUED	07-16-2019

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

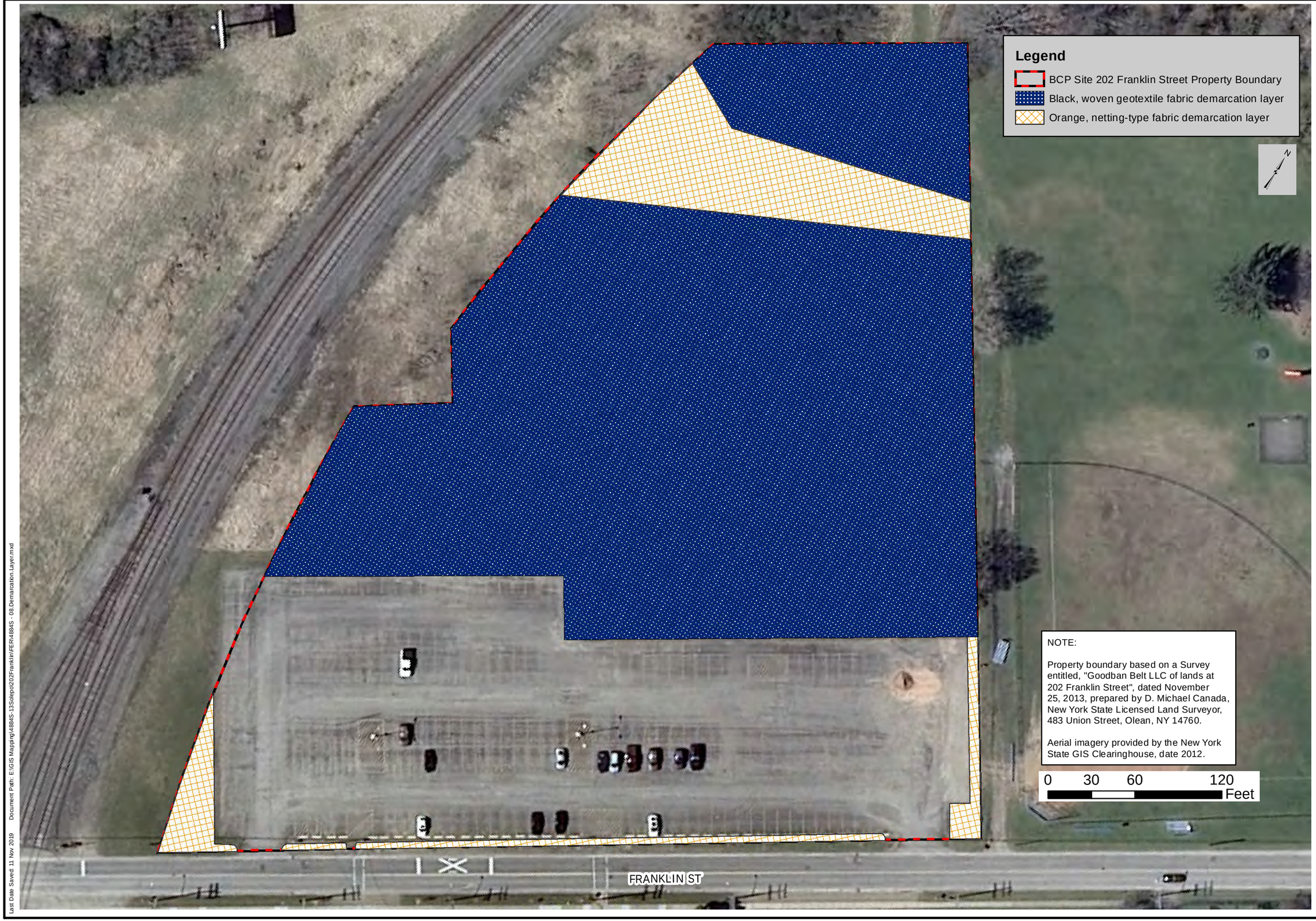
BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan showing Concentrations in Remaining Groundwater Samples that Exceed Standards or Guidance Values

Project No.
4884S-13

FIGURE 7

Last Date Saved: 17 Jul 2019 Document Path: E:\GIS Mapping\4884S-13Solep\202Franklin\SMP\4884S - 09 - BCP RI GW COCs.SMP.mxd



DESIGNED BY	DATE
RLK	09-2019
DRAWN BY	DATE DRAWN
CAH	09-2019
SCALE	DATE ISSUED
AS NOTED	11-11-2019

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

BCP SITE NO. C905043 FINAL ENGINEERING REPORT

Drawing Title
Site Plan Depicting Approximate Extent of Demarcation Layer Fabric by Type

Project No.
4884S-13

FIGURE 8

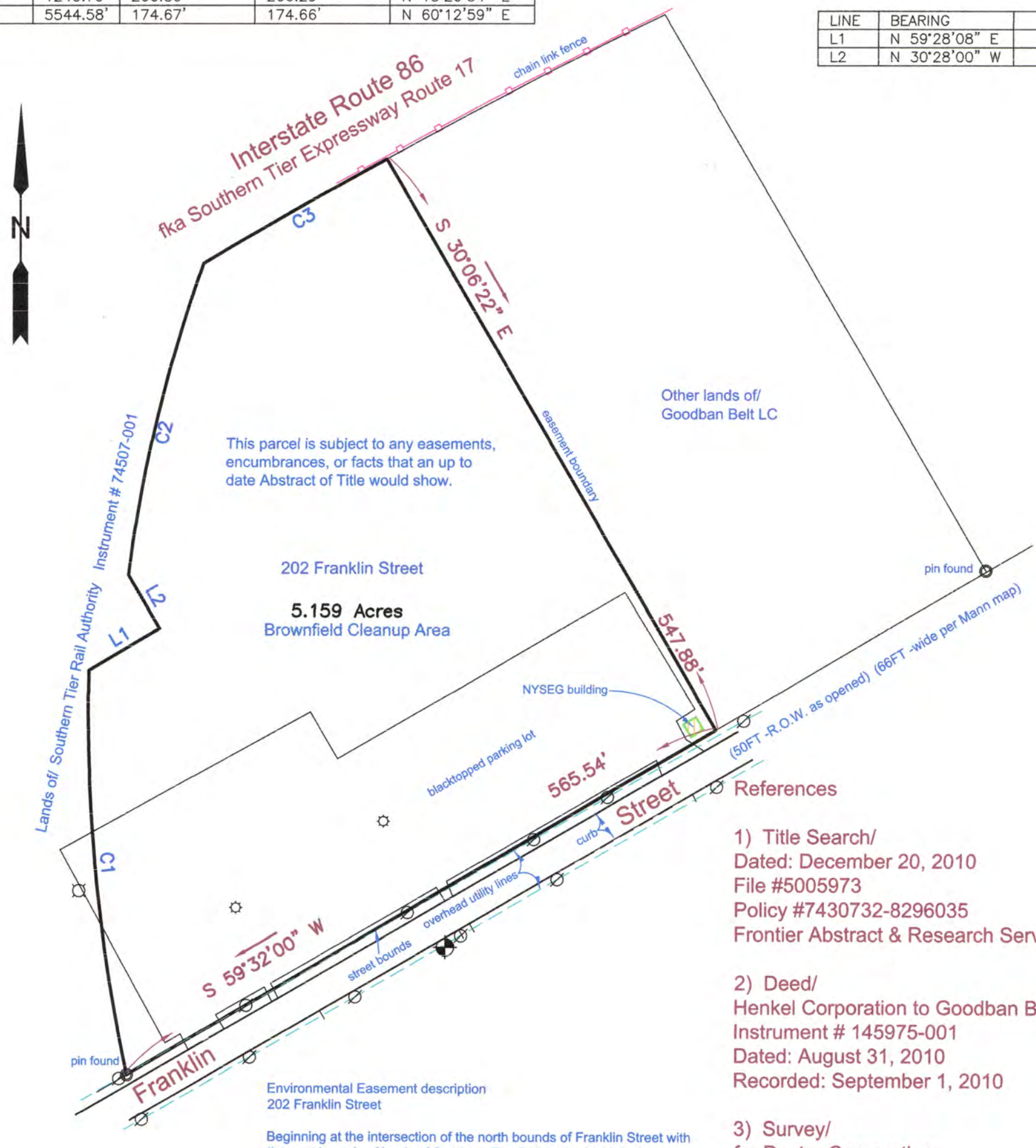
Last Date Saved: 11 Nov 2019 Document Path: E:\GIS Mapping\4884S-13S\ep\o202Franklin\FER\4884S - 08.Demarcation Layer.mxd

APPENDIX A

SITE SURVEY MAP

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	1432.69'	338.04'	337.26'	N 05°34'22" W
C2	1240.79'	266.80'	266.29'	N 13°20'34" E
C3	5544.58'	174.67'	174.66'	N 60°12'59" E

LINE	BEARING	DISTANCE
L1	N 59°28'08" E	68.03'
L2	N 30°28'00" W	51.78'



Environmental Easement description
202 Franklin Street

Beginning at the intersection of the north bounds of Franklin Street with the east bounds of lands of Southern Tier Rail Authority LLC, thence along the east bounds of lands of Southern Tier Rail Authority:
1) along a curve to the right, with a radius of 1432.69',
a arc length of 338.04' which is subtended by a
chord of N 5-34-22 W, a distance of 337.26' to a point
2) N 59-28-08 E, a distance of 68.03' to a point
3) N 30-28-00 W, a distance of 51.78' to a point
4) along a curve to the right, with a radius of 1240.79',
a arc length of 266.80' which is subtended by a
chord of N 13-20-34 E, a distance of 266.29' to a
point, thence along the south bounds of Interstate Route 86:
along a curve to the right, with a radius of 5544.58',
a arc length of 174.67' which is subtended by a
chord of N 60-12-59 E, a distance of 174.66' to a point
thence S 30-06-22 E, through the lands of Goodban Belt LLC, a distance of 547.88' to a point,
thence S 59-32-00 W along the north bounds of Franklin Street, a distance of 565.54' to the point of beginning

Contains 5.159 acres+/-

References

1) Title Search/
Dated: December 20, 2010
File #5005973
Policy #7430732-8296035
Frontier Abstract & Research Services, Inc.

2) Deed/
Henkel Corporation to Goodban Belt LLC
Instrument # 145975-001
Dated: August 31, 2010
Recorded: September 1, 2010

3) Survey/
for Dexter Corporation
Dated: August 2, 1979
by M.C. Ackerman, LS 23028

300 200 100 0
1IN=100FT
91.44 60.96 30.48 0
1IN=30.48METERS

Typical Symbols
-hydrant
-utility pole
-light pole
-monitor well
d. -deed distance
m. measured distance

This survey is certified to the following/

1) New York State Department of Environmental Conservation

Map and Survey for:
Goodban Belt LLC
of lands at
202 Franklin Street

Copies Invalid Unless Embossed

Alteration of This Document is Illegal Under Sec. 7209 Subdivision 2 of The New York State Education Law.

Part of Lots 4 & 6, Section 5 , Twp.# 2, Range # 4 of the Holland Land Co.'s Survey
Blocks 64 and 74 and part of Blocks 63, 65, 73, 75, 80, 81, and 82
Part of Franklin, Washington, Vine, and Spruce streets, and other lands
according to the "Mann Map of Olean Depot"
City of Olean
Cattaraugus County, New York
Date: November 25, 2013
Scale: 1IN = 100FT

Prepared By:
D. Michael Canada
New York State
Licensed Land Surveyor
483 North Union Street
Olean, NY 14760
N.Y.S. Lic. No.49215
716-379-7918

Job Number: 7526

APPENDIX B

DIGITAL COPY OF THE FER (CD)

APPENDIX C

DAILY FIELD REPORTS AND CAMP DOCUMENTATION

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 20, 2017 DAY: Wednesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy then
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 67° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 06:15 (am)/pm

COMMENTS:

*06:15 - CAH onsite - Calibrated PID -> span cal and zero; Calibrated dust meter
*07:00 - Louis, Dan & Joe - Richard Peck Construction onsite
07:20 - Mark Wendel onsite - Safety meeting and discuss scope of work
↳ Paint out Geophysical Anomaly "J" boundary using GPS as guide
08:00 - Louis (RPC) uses excavator to remove small trees + Brush from N property line
09:50 - RPC strips topsoil from Geophysical Anomaly "J" area
10:05 - Topsoil removal complete; DAY marks out Removal Areas 1 through 11 using GPS
10:35 - Removal Area (RA) 2 excavations begin. RPC Excavate using excavator and transfer soil/waste to a loader. Soil is stockpiled on 2 layers of 10 mil Poly; located on Asphalt parking area.
PID background & Excavate) Northern Arm of RA-1 to ~1.5' BGS; encountered fill material (black sandy soil, little silt) to depth of ~0.9' then brn clayey soil w/ brick) little wire, metal waste removed)
PID background & Excavate) RA-2 to depth of ~4.8'; encountered black fill-containing glassy black material (apparent coal fragments) to depth ~0.5' then clayey fill w/ bricks - ~10 steel/iron pieces & a portion of a metal bucket/wire, weather/machine parts
11:50 - Lunch - 12:40
↳ extended RA-2 ~4.5' to North to chase wire waste / rusted strips of sheet metal and extended to depth of ~48" where encountered a rectangular (~72" x 40" x 28") open top bin (apparent steel) upside down and full w/ soil - screened Soil w/ PID max and = 0.2 ppm - placed bin on scrap pile for disposal - Average depth RA2 - 24"
13:10 ↳ Resumed excavation of RA-1 Trending South excavated to approx depth encountered layer of apparent ash w/ slag ~ 2" Thick, ~48" x 72" area -> Removed for disposal

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: RPC - Hitachi 160 LC Excavator; Caterpillar IT28F loader

DAY Representative (print): / DAY Representative (signed): /

Attachments: 1) **Site Plan w/Annotations, Dated** 9/20/17
2) **CAMP Air Monitoring Report** 9/20/17

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/20/17 DAY: /
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: (PM) Sunny
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 80° (Fahrenheit)
CONTRACTOR: RPC	

On Site at: / am/pm

COMMENTS: ↳Encountered additional slag/cinder material in southern end of RA-1; excavated area approx 1.5' to depth of approx 46" in attempt to remove slag/cinder material. Encountered steel pipe, approx 4" OD, trending NW-SE in excavation. → Call M.W. (Solutex) to notify of 4" pipe

PID = background

14:40 → Excavation of RA-1 complete); RPC representatives cover waste soil pile CAH captures approx excavation limits using GPS

15:20 Met w/ Mark Wandel (Solutex) and observed pipe → Per MW - do not disturb for now

[Note: PID background fluctuated between 0.0 ppm and 0.2 ppm]

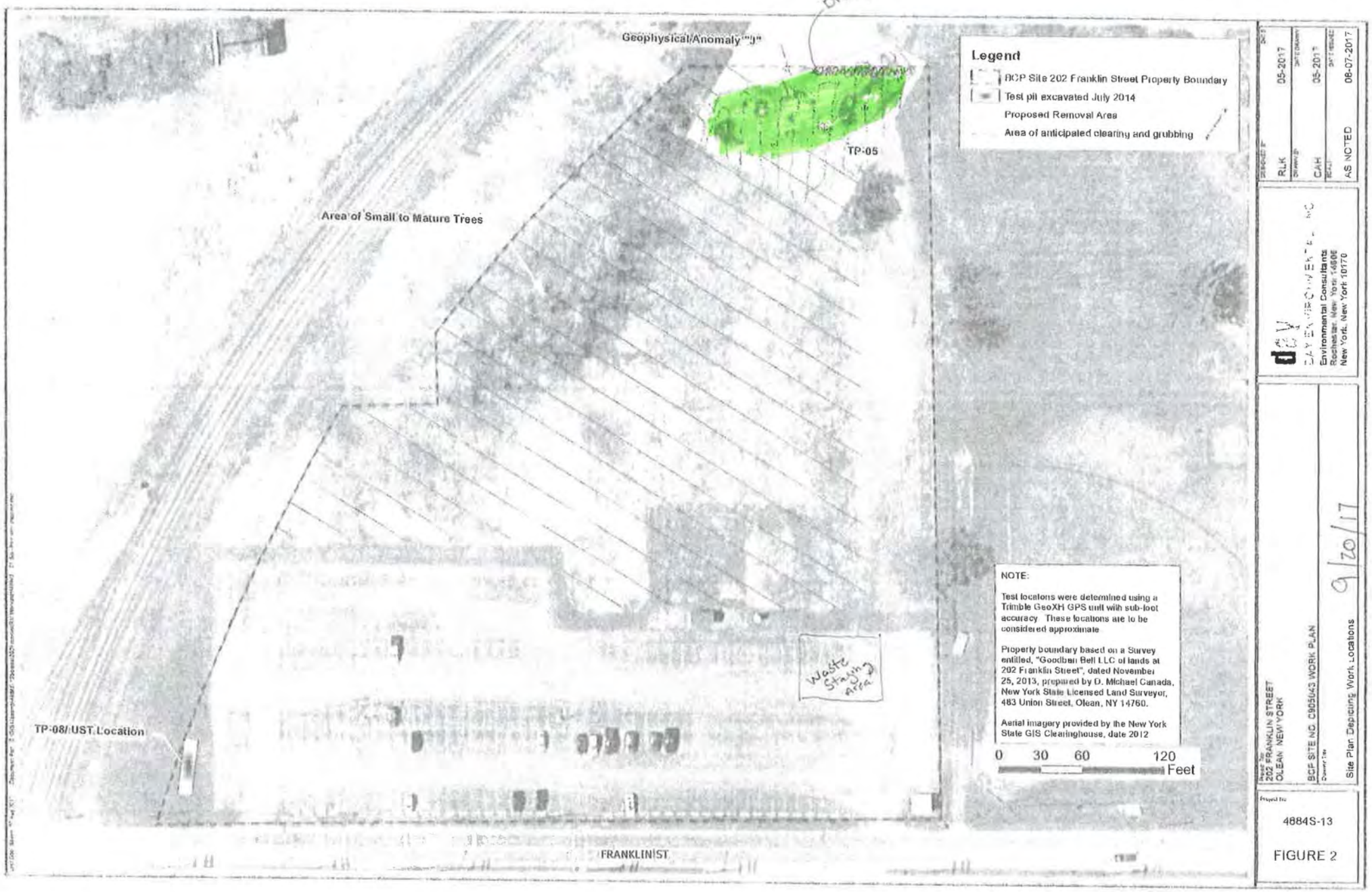
Off Site at: 16:00 am/pm

WORK FORCE AND EQUIPMENT: See previous

DAY Representative (print): Charles Hampton DAY Representative (signed): CHDH

Attachments: 1) **Site Plan w/Annotations, Dated** /

2) **CAMP Air Monitoring Report** /


Stripped Area
Brush/Tree Removal
Geophysical Anomaly "J"
TP-05
Area of Small to Mature Trees
TP-08/UST Location
Waste Staging Area
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE:
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate
Property boundary based on a Survey entitled, "Goodban Bell LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
RLK
05-2017
CAH
05-2017
AS NOTED
08-07-2017
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
Site Plan Depicting Work Locations
9/20/17
4884S-13
FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/20/2017 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 06:15 OFF-SITE: 16:00

WEATHER CONDITIONS: Fog PREVAILING WIND DIRECTION: From

PERSONNEL ON-SITE: Refer to daily field report

NOTES: Thick fog in morning - Burned off @ approx. 10:15 a.m.

* Particulate reading of BG apparently due to heavy fog

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
UP wind Background	06:45	BG	0.0	0.361 *
TOPSOIL REMOVAL - Start	08:50			
	09:05	1	0.1	0.565 *
	09:20	1	0.1	0.342 *
	09:35	1	0.1	0.235 *
	09:50	1	0.1	0.079 *
TOPSOIL Removal - Complete	10:05	1	0.1	0.034
No Soil Disturbance	10:20	1	0.1	0.005
Removal Area Excavation START	10:35	1	0.1	0.000
	10:50	1	0.1	0.002
	11:05	1	0.0	0.007
	11:20	1	0.0	0.007
	11:35	1	0.0	0.010
	11:50	1	0.0	0.007
LUNCH (11:50 - 12:40)				
Removal Area (1 & 2)	12:55	1	0.0	0.026
	13:10	1	0.0	0.032
	13:25	1	0.0	0.021
	13:40	1	0.0	0.017

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 9/20/2017 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Removal Area 1	13:55	①	0.0	0.011
	14:10	①	0.0	0.023
	12:25	①	0.0	0.036
Excavation Completed	14:40	①	0.0	0.021

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

1563 LYELL AVENUE
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(585) 454-0210
FAX (585) 454-0825

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420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring location
Potential sensitive receptor and/or down-wind Site perimeter monitoring location
Limits of the 202 Franklin Street Site
NOTE:
Properly boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.
FRANKLIN ST
0 35 70 140
Feet
DESIGNED BY RLK 11-2013
DRAWN BY CPS 11-2013
SCALE AS NOTED
DATE ISSUED 11-18-2013
dAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
HEALTH AND SAFETY PLAN
Drawing Title
Proposed Community Air Monitoring Plan Locations
9/10/2017
Project No
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 21, 2017 DAY: Twrsday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 70 (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 06:45 am/pm

COMMENTS:

06:45 → CAH onsite → Calibrated PID and Particulate meter
07:00 → RPC representatives - Louis, Dan and Joe - onsite
07:40 → RPC Excavates RA-6. Encountered wire + metal (sheet + strip) waste along with apparent incinerated material starting ~0.5' BGS. ~~and~~ Seam of material (i.e waste) extended toward NW and to approximate depths of 5', so apparent clean fill was stopped and transfered to RA-2, to reach the metal waste seam. Extended excavation to the NE to chase metal waste. Final depth in RA-6 on west end to approx 5' BGS, on east end to ~~approx~~ 3.5'
PID = Background
10:00 → RPC Excavates RA-5 - encounted wire waste, ash and black sandy material (clumping) near surface. Encountered additional waste metal material, apparent ash + incinerated materials, a black glassy material, steel cable and bars etc. Extended RA-5 to NE to chase metal waste material and extended to N - into the RA-6 area to chase metal waste material. Apparent inert fill/soil (i.e. re-worked soil, concrete chunks, brick fill) was removed from sidewalls and deposited in RA-6 or RA-2 excavation areas, when chasing metal waste material past original excavation limits
PID = Background
11:20 → completed excavation of RA-5 and paused for lunch
11:40 → Started excavating RA-3 and RA-4 (Note: Due to proximity of RAs, the areas were excavated as one unit). Encountered similar materials as previously described, starting ~0.5' BGS and extending to ~1.0' BGS on the east end of excavation and to ~4.0' BGS on west end of excavation. Extended excavation to west to chase metal waste, and deposited apparent inert

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: Same as 9/20/17 with addition of Volvo ECR88 Excavator, operated by Richard Peck for stump removal

DAY Representative (print): / DAY Representative (signed): /

Attachments: 1) **Site Plan w/Annotations, Dated** 9/21/17
2) **CAMP Air Monitoring Report** 2 pages (9/21/17

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/21/17 DAY:
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER:
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: (Fahrenheit)
CONTRACTOR: RPC	

On Site at: / am/pm

COMMENTS: (Cont.) material into adjoining excavation. Further extended excavation to BW to chase metal waste, which trended toward the ground surface in this area (to west of EA-3)

13:40 → Returned to excavation area EA-5 extending toward E to chase metal waste near surface.

14:00 → Started excavation of EA-7, extending area into edge of EA-5 to remove near surface metal waste between the areas (~0.5' BGS). PID = background. Shallow metal waste encountered, down to ~10" BGS. RPC excavated a test pit to ~20" BGS in the center of EA-7 to confirm no addtl metal waste. Apparent native soil observed (clayey sand and gravel)

14:15 → Started excavation of EA-8, extending to edge of EA-7 to remove shallow metal waste. Also extended to edge of EA-5 to remove shallow metal waste, extending along end of EA-5 and trending downward to follow ~3" layer of metal waste. Apparent inert fill soil above metal waste was stripped and stockpiled in EA-5. PID = Background

14:50 → EA8 excavation completed. RPC fences excavation area and covers soil pile (parking area). CAH uses GPS to record excavation areas and approximate ~~depths~~ ceiling depths in excavations.

Note: PID readings, measured over excavated soil and in resulting excavations (floor + sidewalls) ranged between 0.0 and 0.2 ppm

Note: RPC removing stumps from center-west portion of site ~9:10 am to ~15:35

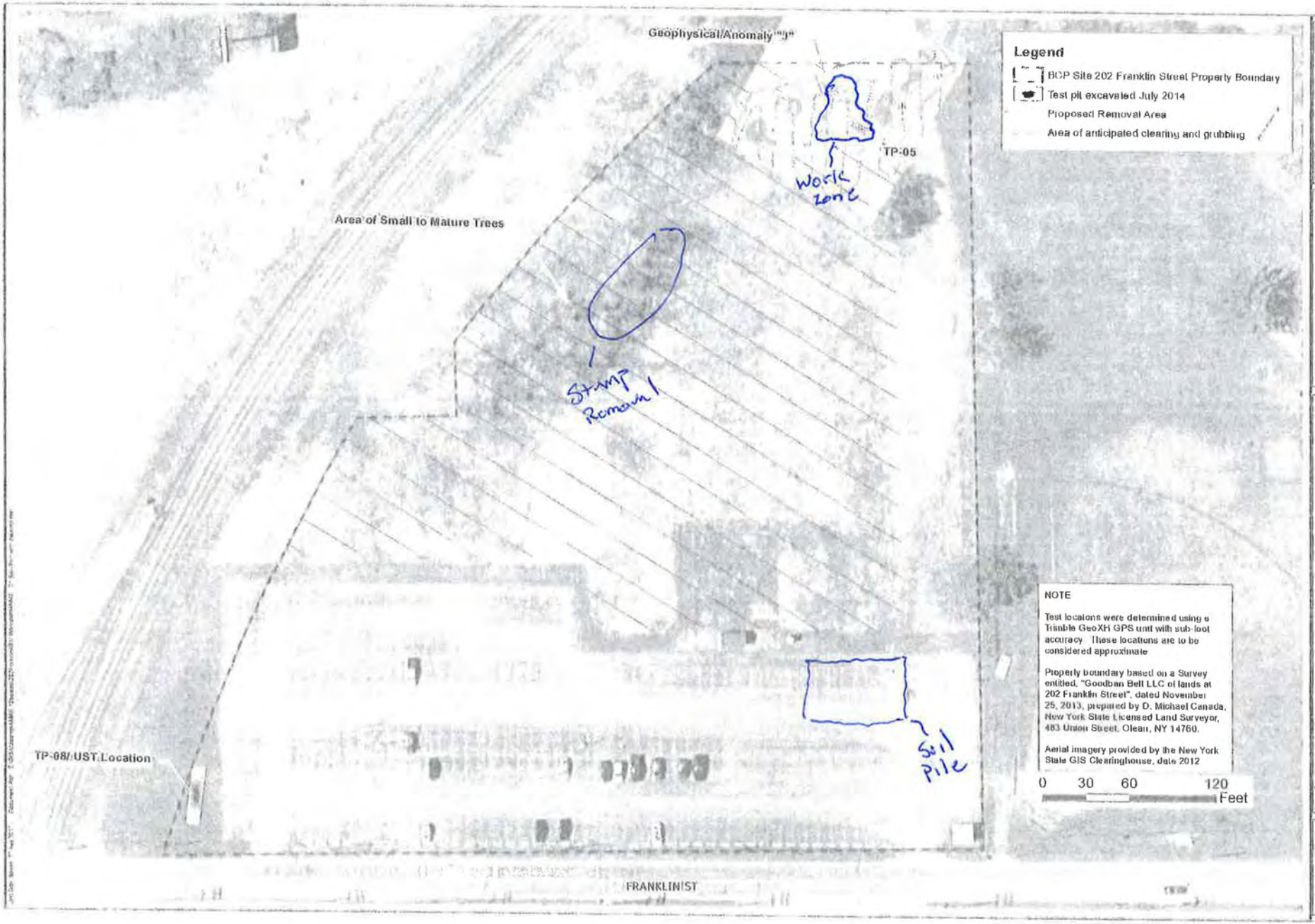
Off Site at: 15:55 am/pm

WORK FORCE AND EQUIPMENT:

DAY Representative (print): Charles Hampton DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** /

2) **CAMP Air Monitoring Report** /



RLK 05-2017

CAH 05-2017

AS NOTED 08-07-2017

Environmental Consultants
Rochester, New York 14606
New York, New York 10170

202 FRANKLIN STREET
OLEAN NEW YORK

BCP SITE NO. C905043 WORK PLAN

9/21/2017

Site Plan Depicting Work Locations

4884S-13

FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/21/17 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 06:45 OFF-SITE: 15:55

WEATHER CONDITIONS: Foggy (AM) PREVAILING WIND DIRECTION: No wind AM
PM - light wind - shifting N-E-W

PERSONNEL ON-SITE: Refer to daily field report

NOTES: Heavy fog AM
RPC onsite to remove stumps from west-central portion of site
RPC excavating on NE portion of site

* Foggy conditions

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Excavation Area 6 - START	07:40			
	07:55	(1)	0.1	0.217*
	08:10	(1)	0.1	0.325*
	08:25	(1)	0.1	0.137*
	08:40	(1)	0.1	0.097*
	08:55	(1)	0.1	0.148*
START Stump Removal (W side Site)	09:10	(1)	0.1	0.043*
	09:25	(1)	0.1	0.001
	09:40	(1)	0.1	0.004
Excavation Area 6 end	09:55	(1)	0.1	0.013
Excavation Area 5	10:10	(1)	0.1	0.008
(Fog Clearing)	10:25	(1)	0.1	0.002
	10:40	(1)	0.1	0.000
(Fog Evaporated)	10:55	(1)	0.1	0.000
	11:10	(1)	0.1	0.000
Lunch break	11:20	(1)	0.1	0.000
Excavation areas 3 & 4 Start	11:50			
	12:05	(1)	0.1	0.000
	12:20	(1)	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 9/21/17 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Excavation Areas 3+4	12:35	1	0.0	0.000
	12:50	1	0.0	0.000
	13:05	1	0.0	0.000
	13:20	1	0.0	0.000
	13:35	1	0.0	0.000
	13:50	1	0.0	0.000
Excavation Area 8	14:05	1	0.0	0.000
	14:20	1	0.0	0.000
Excavation Area 8	14:35	1	0.0	0.000
	14:50	1	0.0	0.000
Excavation work suspended	10:05		0.0	0.000
	15:20		0.0	0.000
Stump removal work ends	15:35		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

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Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaton
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
FRANKLIN ST
0 35 70 140
Feet
DESIGNED BY RLK
DATE 11-2013
DRAWN BY CPS
DATE (Drawing) 11-2013
SCALE AS NOTED
DATE REVISED 11-18-2013
dey
DAY ENVIRONMENTAL, INC
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
Drawing Title
HEALTH AND SAFETY PLAN
Proposed Community Air Monitoring Plan Locations
9/21/17
Project No.
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 22, 2017 DAY: Friday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Fog AM
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 55° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 6:45 (am)/pm

COMMENTS:

06:45 → CAH onsite - Calibrate PID and Zero Particulate meter
06:55 → RPC representatives (Louis, Dan and Joe) onsite - Prep. equipment
07:25 → RPC starts excavations with Removal Area (RA) 11, Excavating from the north property line toward SSW and extending the RA to the SE and SSW (ie into RA-9) to chase metal waste. Encountered metal tabs, wire waste, brick, concrete, steel cable, apparent ash, and large to small black clumps that appear to have been burnt (glassy or with vessicles) Excavation both approx 3' BGS at property line, trending upward toward SE to follow seam of waste.
08:00 → RPC reps onsite to continue clearing and grubbing of west-central portion of Site.
→ Excavation continues toward S. Encountered area of cinders/ash on western end of RA-9 - extended to NW to excavate material (metal waste continues to trend upward - daylighting near SE edge of Anomaly 1.
10:00 → RLR onsite. Observed operations. Spoke w/ RPC rep regarding fill material and grading plans. Per RPC - No final grading plan yet, Hoover would like to grade before placing bank run material - discussed possibility of a berm
12:00 → 12:20 Break for lunch, RLR off site
13:00 Excavation Complete - RPC covers soil pile and grades excavation areas for safe entry (ie knock down exposed sidewalls and ramps soil to bottom of excavations)

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: Same as 9/21/17, with addition of a second Volvo ECR 88 Excavator, two dump trucks, and a chipper/shredder for tree removal and disposal work

DAY Representative (print): Charles Hampton DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** 9/22/17
2) **CAMP Air Monitoring Report** 9/22/17

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/22/17 DAY: Friday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER:
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: (Fahrenheit)
CONTRACTOR: RPC	

On Site at: ____ am/pm

COMMENTS:

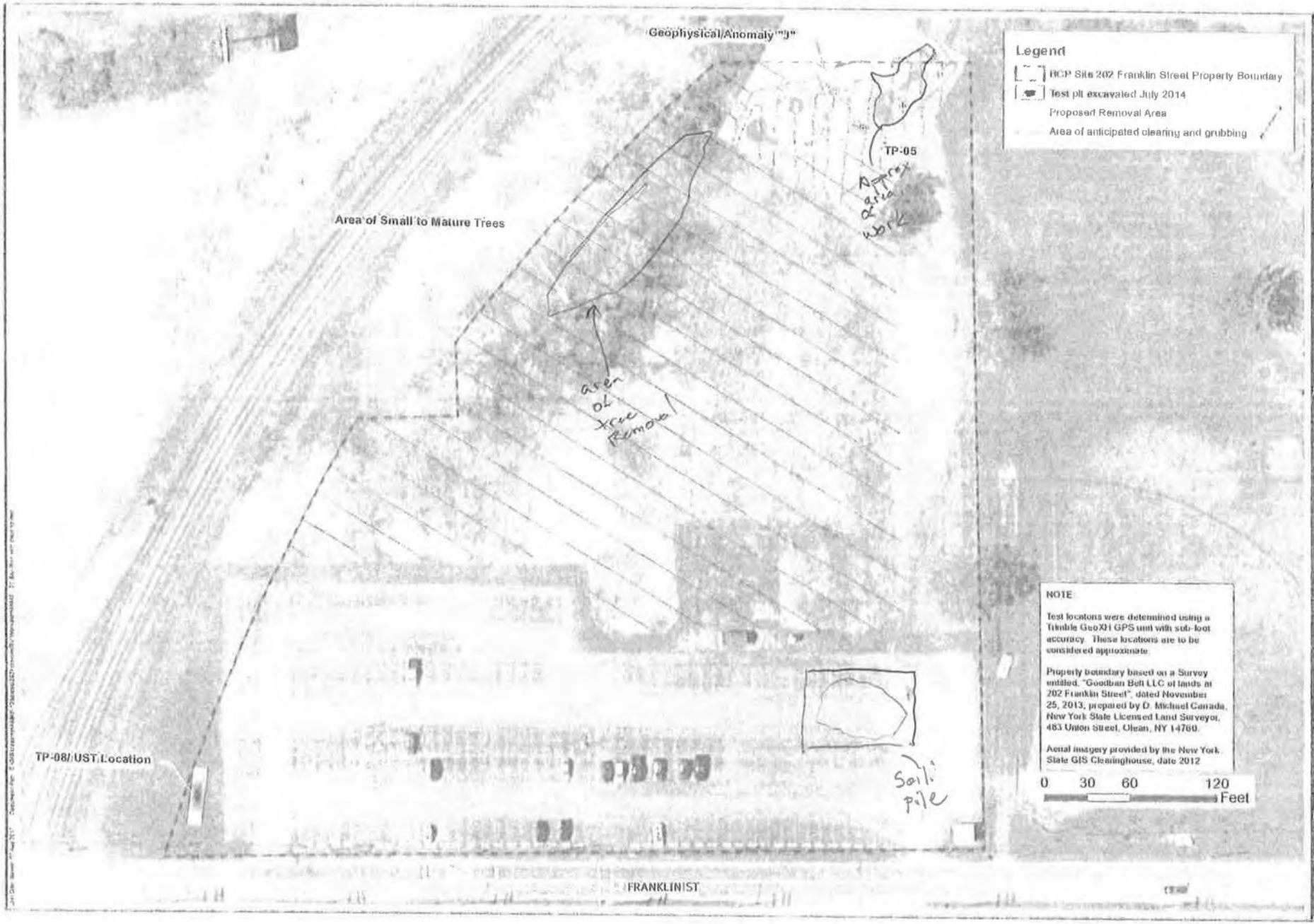
13:40 - Grading of Excavation area completed. Tree removal disposal continues
14:50 - Tree removal disposal work completed

Off Site at: 15:05 am/pm

WORK FORCE AND EQUIPMENT:

DAY Representative (print): Charles Hampton DAY Representative (signed): CLH

Attachments: 1) **Site Plan w/Annotations, Dated** ____
2) **CAMP Air Monitoring Report** ____



DESIGNED: RLK 05-2017
DRAWN BY: CAH 05-2017
CHECKED: AS NOTED 08-07-2017

Environmental Consultants
Rochester, New York 14606
New York, New York 10170

202 FRANKLIN STREET
OLEAN, NEW YORK

BCP SITE NO. C905243 WORK PLAN

9/22/17

Site Plan Depicting Work Locations

4884S-13

FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/22/17 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 06:45 OFF-SITE: 15:05

WEATHER CONDITIONS: Foggy (fog) PREVAILING WIND DIRECTION: Foggy then little wind from SE

PERSONNEL ON-SITE: Richard Peck Construction (RPC)

NOTES: Due to little wind, kept CAMP location in direction of nearby residences

* Foggy Conditions

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Excavation Area 11/8 Start	07:25			
	07:40	①	0.2	0.589*
	07:55	①	0.2	0.405*
Tree clearing/stump grinding	08:10	①	0.1	0.515*
	08:25	①	0.1	0.451
	08:40	①	0.1	0.477
	08:55	①	0.1	0.485
	09:10	①	0.1	0.393
	09:25	①	0.1	0.378
	09:40	①	0.1	0.134
	09:55	①	0.1	0.114
Excavating	10:10	①	0.1	0.075
	10:25	①	0.1	0.028
	10:40	①	0.1	0.012
Fog Cleared	10:55	①	0.1	0.006
	11:10	①	0.1	0.000
	11:25	①	0.1	0.000
Tree Clearing Stops	11:40	①	0.1	0.013
	11:55	①	0.1	0.027

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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AIR MONITORING REPORT SHEET (Continued)

DATE: 9/22/17 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Lunch 12:00 - 12:20				
Resume Excavation Area 9	12:20			
	12:35	1	0.0	0.000
	12:50	1	0.0	0.000
Excavation completed (Area 9)	13:05	1	0.0	0.000
	13:20	1	0.0	0.000
Start RPC coding Excavation Area	13:35	1	0.0	0.000
	13:50	1	0.0	0.000
	14:05	1	0.0	0.000
	14:20	1	0.0	0.000
	14:35	1	0.0	0.000
Tree Clearing/Stump Removal Ends	14:50	1	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaton
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
NOTE:
Properly boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
FRANKLIN ST
0 35 70 140
Feet
DESIGNED BY RLK 11-2013
DRAWN BY CPS 11-2013
SCALE AS NOTED 11-18-2013
dey
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
9/22/17
Drawing Title
HEALTH AND SAFETY PLAN
Proposed Community Air Monitoring Plan Locations
Project No.
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 25, 2017 DAY: Monday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy (AM)
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 60° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 07:00 am/pm

COMMENTS:

07:00 - CAH onsite; Calibrate) PID And Personal Particulate Meter
↳ RPC Representatives (Travis, Dan, Joe) onsite shortly after (~7:05)
↳ Prepad. for UST Exposure - Placed double
07:10 → Separate RPC crew onsite to load stockpile for removal off-site
07:40 → UST excavation work begins. RPC digs along eastern edge of the tank, starting at SW end and progressing toward the NE. Encountered tank top at ~4.2' BGS. Apparent vent pipe encountered on (W end) of UST, extending ~3.5' from tank and pinched off below ground surface. ~2" Ø steel pipes encountered protruding from concrete foundation sidewall on E side of UST. However no piping was connected to the UST. Encountered apparent manway (~3' Ø) with square cover plate @ approximate center of the UST (NOTE: The standpipe at this location was installed to replace a previous standpipe that was knocked off during RT test pit work in 2016). Encountered flange w/ 90° elbow (exposed) on NE end of tank.
→ PID readings of vapors in UST measured from vent and elbow piping, ranged from 73.6 to 122.8 ppm.
→ CAH screened each bucket of soil/fill that was removed from tank excavation with exception of first bucket (native silty-sand from marking paint). No readings over soil were above background (i.e. 0.0 ppm to 5.2 ppm)
→ Excavated soil was stockpiled adjacent to E of UST Excavation, for reuse as backfill
10:30 → UST tank ends exposed → excavation work complete, backfill started (reverse)
11:25 → RPC completes tank removal work, places fencing around UST Excavation

Off Site at: 11:40 am/pm

WORK FORCE AND EQUIPMENT: Same as 9/22/17

DAY Representative (print): Charles Humpston DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** 9/5/17
2) **CAMP Air Monitoring Report** 9/25/17

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/25/2017 PAGE: 1 OF 1

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 07:00 OFF-SITE: 11:40

WEATHER CONDITIONS: Fog (mm) PREVAILING WIND DIRECTION: Calm

PERSONNEL ON-SITE: DAY - CH - RPC (Sec Hand)

NOTES: * Foggy Conditions

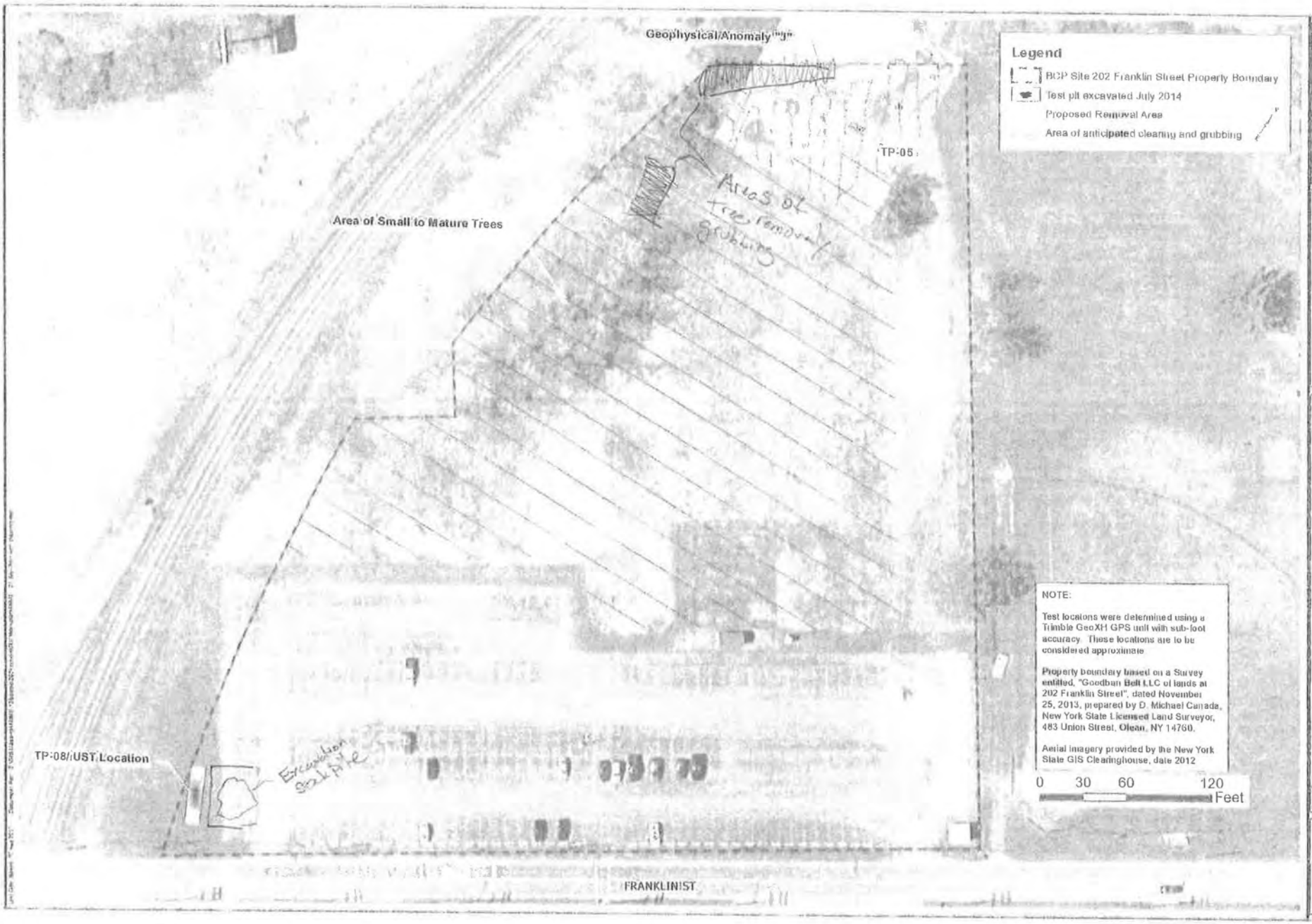
DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Start - Excavation for UST and Stump loading	07:40			
	07:55	①	0.0	0.305 *
	08:10	①	0.0	0.281 *
	08:25	①	0.1	0.243 *
	08:40	①	0.1	0.[illegible] *
	08:55	①	0.1	0.172 *
	09:10	①	0.1	0.145 *
Stumploading complete	09:25	①	0.1	0.126 *
Tree removal begins	09:40	①	0.1	0.083 *
	09:55	①	0.1	0.027 *
Fog Clearing	10:10	①	0.1	0.029 *
Fog lifted	10:25	①	0.1	0.023
	10:40	①	0.1	0.013
UST Excavation complete, remove from site	10:55	①	0.1	0.009
	11:10	②	0.1	0.018
Tree clearing/removal work complete	11:25	②	0.1	0.012

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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(212) 986-8645
FAX (212) 986-8657



DESIGNED BY	RLK
DATE	05-2017
DRAWN BY	CAH
DATE	05-2017
SCALE	AS NOTED
DATE REVISED	08-07-2017

Environmental Consultants
Rochester, New York 14606
New York, New York 10170

9/25/2017

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

BCP SITE NO. C905043 WORK PLAN

Drawing Title
Site Plan Depicting Work Locations

4884S-13

FIGURE 2

DESIGNED BY RLK 11-2013
DRAWN BY CPS 11-2013
SCALE AS NOTED 11-18-2013

day ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

9125/17

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

HEALTH AND SAFETY PLAN

Drawing Title
Proposed Community Air Monitoring Plan Locations

Project No.
4884S-13

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 26, 2017 DAY: Tuesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy (AM) Sunny (PM)
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 62°-85° (Fahrenheit)
CONTRACTOR: Richard Peale Construction (RPC) / Sun Environmental Services (SUN)	

On Site at: 08:10 am/pm

COMMENTS:

08:10 → CAH onsite Calibrate) PID and zeroed) particulate Meter
08:20 → RPC Representatives (Louis + Joe) onsite, removed) safety fence from UST excavation
09:20 → SUN onsite (John), reports Vac truck is delayed but arriving soon (Tom is Vac truck driver)
09:30 → NYSDEC (Tony + Damiano) onsite; observed UST Area, Soil Removal and waste Stockpile
10:05 → SUN Vac Truck onsite - safety fencing per safety, then start setup for Vac work
10:30 → SUN Pumps out tank from each (3) access ports - estimate 100 to 150 gal removed
10:45 → Pump Complete - rinse Start; used) pressure washer and potable water from 211 Franklin Street (Approx 125 gal) to rinse, then evacuate) tank w/ vac truck. Due to high vapor level (LEL ~ 10%) Sun keeps VAC pumping in tank ~ 25 min to displace vapors.
11:30 → SUN Plugs 2 ports and) pumps Nitrogen gas into tank (3 Nitrogen bottles used)
12:50 → LEL Reading 12% O_2 reading 13.8% - Excavation Begins - Removed soil from W side UST
14:30 → Tank out of ground - Sun cuts tank and assesses tank interior. Rust & little liquid encountered. No residual product observed on interior surfaces, so residual liquid pumped out of tank, but additional cleaning (i.e. pressure wash) deemed unnecessary.
14:55 → Excavated ~ 2' Below UST invert in area of southern end wall of tank; ~ 15' South of tank center point. Encountered black colored soil w/ strong chemical type odor and PID readings exceeding 500 ppm. NYSDEC Reps agree to delay subsurface investigation until 9/27/17. Impacted soil returned to excavation
15:10 NYSDEC Reps. off site. UST moved onto Asphalt pavement to await transport (Note tank CL ~ 40" off concrete wall) (Note: Soil removal from West end of UST screened w/ PID Per each Excavator bucket; Readings range 0.0ppm to 0.2ppm)

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: RPC - Hitachi 160 LC Excavator

Sun - Box truck w/ 250 gal tote Generator · pressure washer · hoses, tools · all
↳ Vac truck

DAY Representative (print): / DAY Representative (signed): /

Attachments: 1) **Site Plan w/Annotations, Dated** 9/26/17
2) **CAMP Air Monitoring Report** 9/26/17

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/26/17 DAY: Tuesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER:
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: (Fahrenheit)
CONTRACTOR:	

On Site at: ____ am/pm

COMMENTS:

15:30 → Sun evacuates liquid waste (tank contents and wash waters) from Vac truck into 55 gallon drums, and collects sample for waste profile. Drums are staged adjacent to soil waste stockpile.

15:45 → RPC fences open excavation and covers UST soil stockpile (Non-impacted material)

16:00 → Sun Rops off-site; RPC Rops off-site

16:20 → Meet w/ M. Wendel & M. Hopkins to discuss projects status

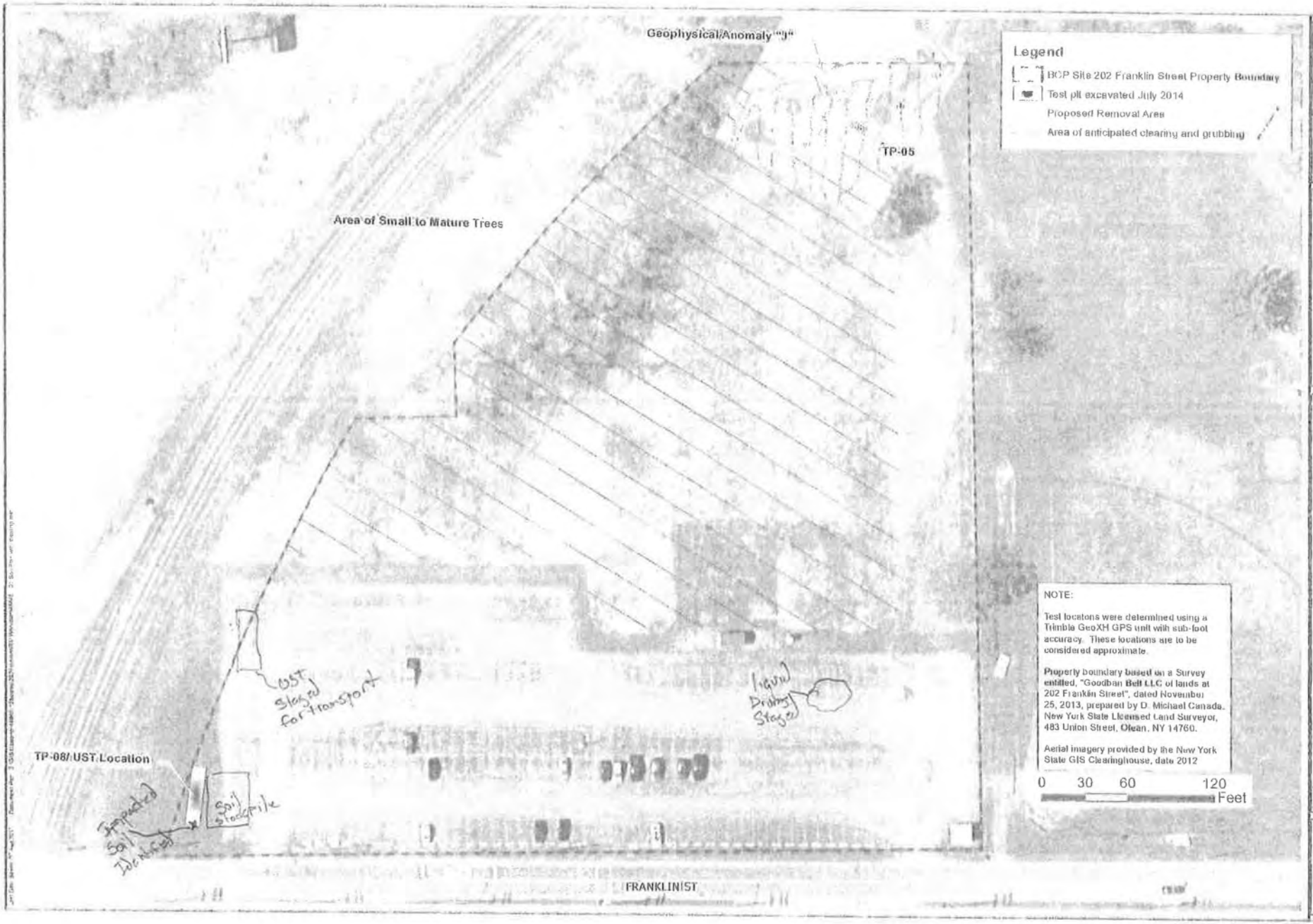
Off Site at: 16:50 am/pm

WORK FORCE AND EQUIPMENT:

DAY Representative (print): Charles Humpton DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** ____

2) **CAMP Air Monitoring Report** ____


Geophysical Anomaly "J"
TP-05
Area of Small to Mature Trees
TP-08/UST Location
UST Staged for Transport
Liquid Drying Stage
Impacted Soil Identified
Soil Stockpile
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE:
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate.
Property boundary based on a Survey entitled, "Goodban Bell LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
Drawn By RLK
Date Drawn 05-2017
Checked By CAH
Date 05-2017
Scale AS NOTED
Date Issued 06-07-2017
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Site
202 FRANKLIN STREET
OLEAN NEW YORK
BCP SITE NO. C905043 WORK PLAN
9/26/17
Drawing Title
Site Plan Depicting Work Locations
Project No.
4884S-13
FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/26/17 PAGE: 1 OF 1

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 08:10 OFF-SITE: 16:50

WEATHER CONDITIONS: Foggy then Sunny PREVAILING WIND DIRECTION: from W

PERSONNEL ON-SITE: RPC / DAY / NYSDEC / Sol Epoxy / SON Env.

NOTES: collected Breathing zone only during tank purge & cleaning

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
BZ	10:00	① Excavation	2.1	—
BZ	10:17	①	4.9	—
BZ	10:50	①	3.7	—
BZ	11:25	①	2.9	—
BZ	12:10	①	3.6	—
BZ	12:43	①	5.8	—
Excavation begins - UST Removal	13:00	②	—	—
	13:15	②	0.0	0.018
	13:30	②	0.0	0.014
	13:45	②	0.0	0.014
	14:00	②	0.0	0.014
	14:15	②	0.0	0.012
Excavation complete - UST Removed from subsurface	14:30	②	0.0	0.013

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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(212) 986-8645
FAX (212) 986-8657

DESIGNED BY: RLK — DATE: 11-2013
DRAWN BY: CPS — DATE: 11-2013
SCALE: AS NOTED — DATE ISSUED: 11-18-2013

CAE ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK

Drawing Title: HEALTH AND SAFETY PLAN

9/26/17

Proposed Community Air Monitoring Plan Locations

Project No: 4884S 13

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 27, 2017 DAY: Wednesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy (AM)
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 60-85° (Fahrenheit)
CONTRACTOR: Richard Peck Construction	

On Site at: 08:50 am/pm

COMMENTS:

08:50 → CAH onsite, Opened MW-A to gauge GW elevation. SWL - 18.6' BGS
↳ calibrated PID and screed dust meter
09:20 → RPC onsite (Richard, Louie, Joe). CAH discussed SOW and then RPC laid out Polystrating (10 mil) for UST Excavation Soil
10:05 → RPC (Richard) excavate tank bedding material along bottom of the UST Excavation. The material consists of a black, granular (sand size) fill material. Excavation proceeds from N to S, and approx 0.5 to 1' of material is excavated following the approximate contour of the former tank. Material is screened w/ PID as it is removed - Readings do not exceed 0.2 PPM
↳ RPC excavates a test pit at the south end of the UST excavation approximately 1-2 feet from the former location of the UST end wall. The test pits extends from ~11 feet BGS to ~15' BGS. A clayey sand and gravel material is encountered exhibiting gray to black staining, an alcohol type odor, and PID readings that range from ~230 ppm (near top) to ~20-40 ppm. Black staining is apparent in the southern wall of the test pit, appearing to trend down and to the ESE. Gray staining is apparent in N sidewall, appearing to trend up (ie. ~11' BGS to ~9.5' BGS). Material excavated is transferred to loader and taken to disposal stockpile for UST Excavation Soil.
↳ 10:50 NYSDEC Rep. (Tony) onsite, observed excavation progress. NYSDEC rep indicates that, based on age of the UST, he is concerned with potential presence of PCBs in the Black bedding soil and/or in the gray/black

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: Hitachi 160 LC Excavator; Caterpillar IT 28 F Loader

DAY Representative (print): _____ DAY Representative (signed): _____

Attachments: 1) **Site Plan w/Annotations, Dated** 9/27/17
2) **CAMP Air Monitoring Report** 9/27/17

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/27/17 DAY: Wednesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Sunny
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 80's (Fahrenheit)
CONTRACTOR: RPC	

On Site at: / am/pm

COMMENTS: (cont) stained soil encountered in the south end of excavation. Tony Recommends collecting soil samples and testing for PCB's to rule out prior to continuing excavation and/or Backfilling excavation

11:25 → Discuss PCB sampling w/ Sol Epoxy Reps (Matt + Mark) and calls to Laboratories to explore 'rush' turn around times and sample transport options

13:25 → Meet w/ NYSDEC (Tony) and Sol Epoxy / Silence Dobrzelecki to discuss options for UST Excavation. Jeff Belt approves rush sample test, but requests that excavation of impacted soils continues since workers are mobilized and weather conditions ideal. Discuss provisions for leaving excavation open until sample results have been received.

14:00 → Collect sample of impacted (apparent solvent) and black bedding material from the South wall of the test pit excavated in AM. ~11.5 to ~12.5' BGS. PID readings over solvent impacted material (using expanded bucket) peak @ 360 ppm. Sample is packaged for transport to Eurofins Spectrum via Fed Ex.

14:30 → Resume excavating tank bedding material, removing ~1' thick layer from along the concrete foundation wall that borders the E side of the UST Excavation. Black material encountered between ~11 to 12' BGS. Work from 'Test Pit' N to end of excavation. (apparent bedding material)

15:25 → Excavation activities completed for day. RPC Places double row of construction fencing around excavation and covers UST and soil stockpiles

15:45 → RPC off-site

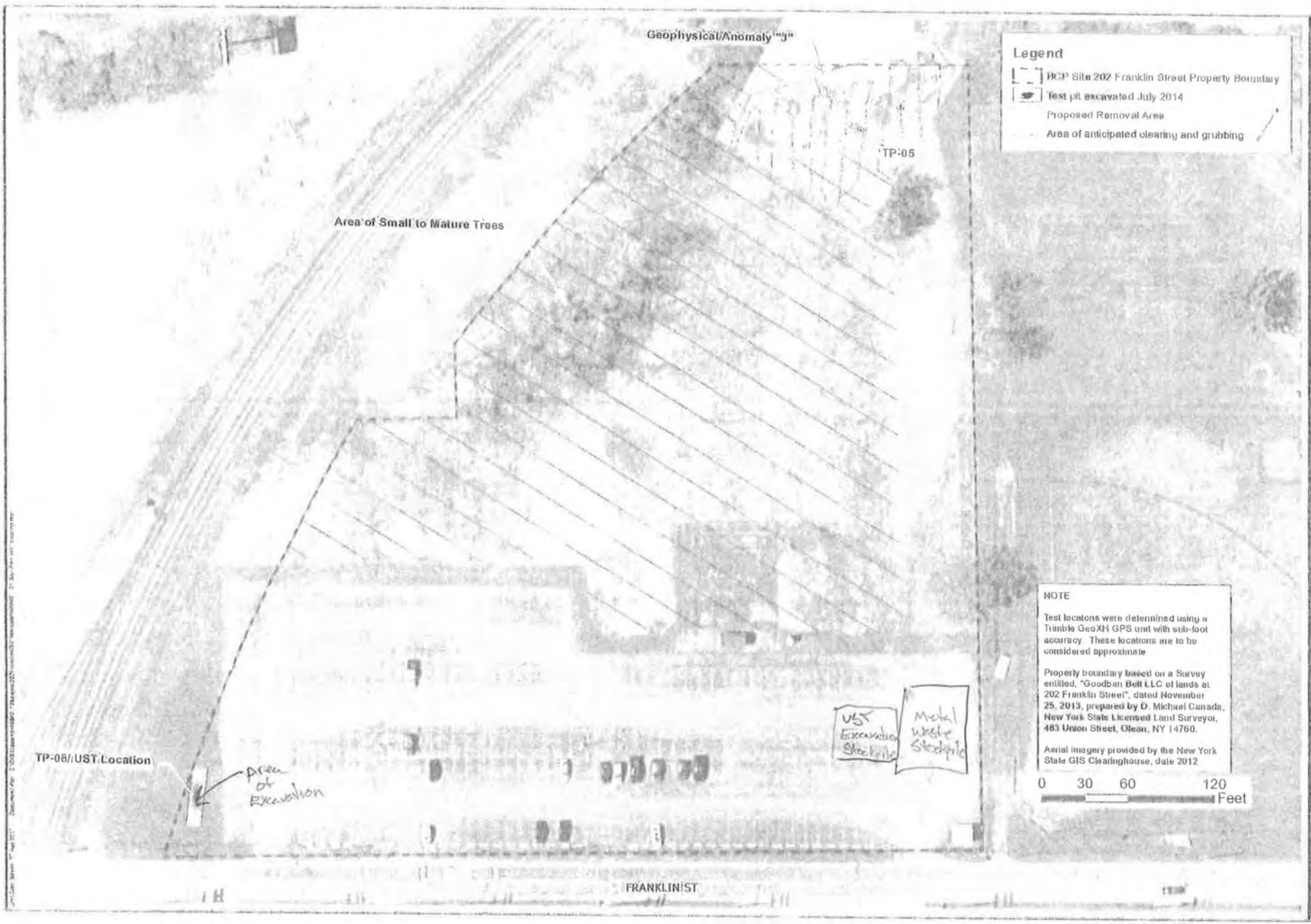
Off Site at: 16:00 am/pm

WORK FORCE AND EQUIPMENT: /

DAY Representative (print): Charles Hampton DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** /

2) **CAMP Air Monitoring Report** /


Geophysical/Anomaly "g"
TP-05
Area of Small to Mature Trees
TP-08/UST Location
Area of Excavation
UST Excavation Stockpile
Metal waste Stockpile
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate
Property boundary based on a Survey entitled, "Goodban Bell LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
DESIGNED BY RLK
DATE DRAWN 05-2017
DRAWN BY CAH
DATE REVISED 05-2017
SCALE AS NOTED
DATE ISSUED 08-07-2017
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
9/27/17
Site Plan Depicting Work Locations
Project No.
4884S-13
FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/27/2017 PAGE: 1 OF 1

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 08:50 OFF-SITE: 16:00

WEATHER CONDITIONS: Foggy upon arrival PREVAILING WIND DIRECTION: from W

PERSONNEL ON-SITE: RPC / Day / Solepoxy / NYSDEC

NOTES: fog cleared prior to excavation start

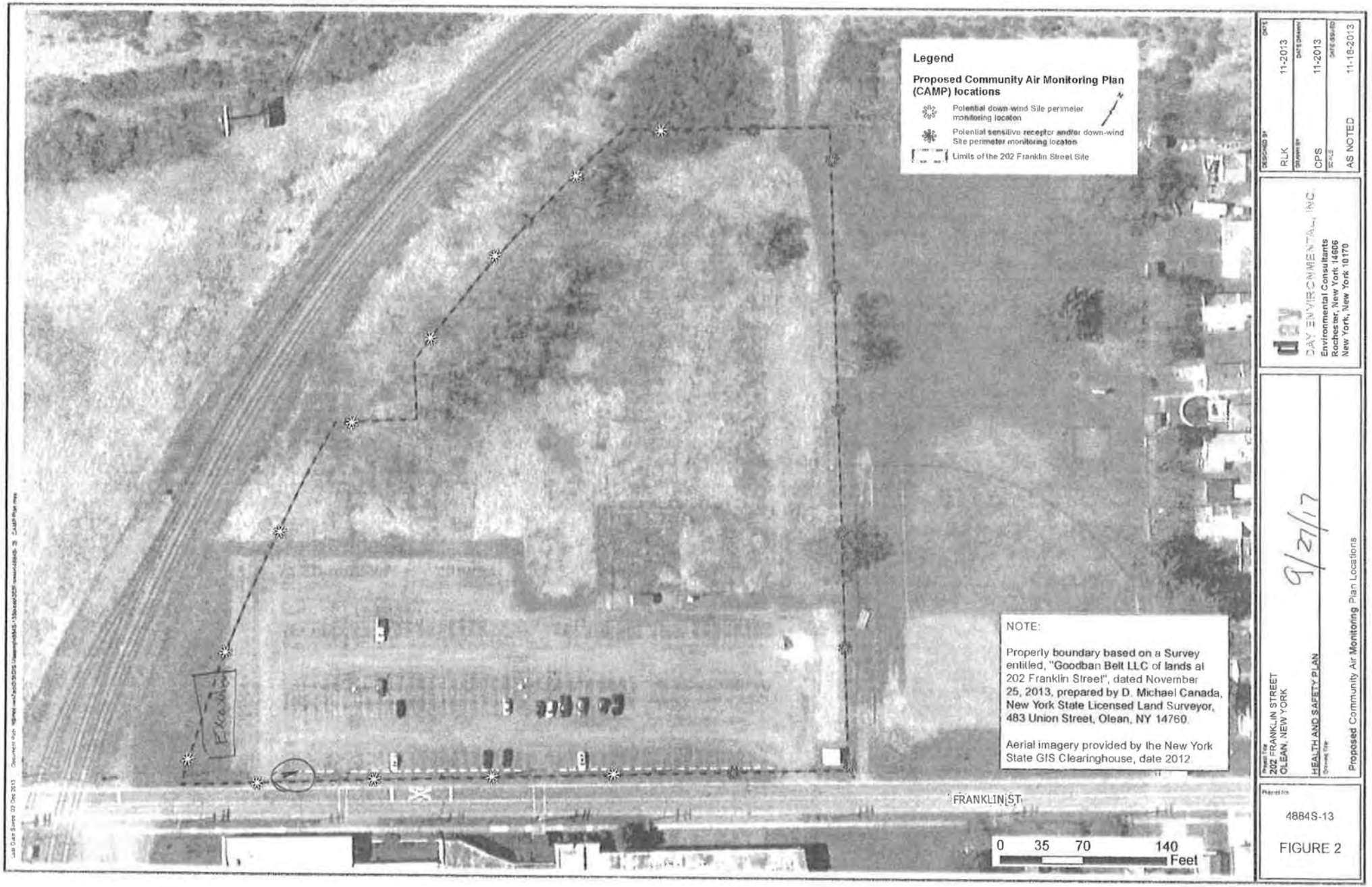
DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
UST Excavation Removal Start	10:05	(1)	—	—
	10:20	(1)	0.0	0.000
	10:35	(1)	0.1	0.000
	10:50	(1)	0.1	0.000
Stop Excavation (UST Removal)	11:25	(1)	0.1	0.000
Resume Excavation UST Removal	14:30	(1)	0.1	0.014
	14:45	(1)	0.1	0.037
	15:00	(1)	0.1	0.027
	15:15	(1)	0.1	0.008
Excavation Complete	15:25	(1)	0.0	0.014

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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FAX (212) 986-8657



DESIGNED BY: RLK — DATE: 11-2013
DRAWN BY: CPS — DATE DRAWN: 11-2013
SCALE: AS NOTED — DATE REVISED: 11-18-2013

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK
Drawing Title: HEALTH AND SAFETY PLAN

9/27/17

Proposed Community Air Monitoring Plan Locations

Project No.: 4884S-13

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: September 28, 2017 DAY: Thursday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Partly Cloudy
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: ~60° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 06:50 am/pm

COMMENTS:

06:50 → CAH onsite - Calibrate PID and zero dust Meter
→ RPC onsite - change buckets on excavator (Toothless)
RPC (Louis, Joe, Tyler) uncover pile and remove Excavation safety fencing
07:30 → Excavation begins - cleaning the remainder of the UST bedding material from UST excavation. Material loaded into loader bucket and transported to UST material Stockpile.
08:05 → Bedding material clean up completed to the edge of the impacted soil area (i.e from N end of excavation to former location of southern end of UST.
08:10 → CAH collects confirmatory samples as depicted on attached sketch - UST Ex-1 through UST Ex-6. (Note: S. Sidewall samples not collected from W sidewall due to Cavern)
09:00 → Sampling complete. CAH calls NYSDEC Rep. (Tony) to describe work completed and requests that UST Excavation (North portion) can be backfilled with soil that will be removed to chase impacted soils. NYSDEC Rep concours. RPC Places demarcation layer across base of UST Excavation (North-central portion) and then removes soil from South end wall of UST Excavation, to approximately 10'-11' BGS, placing the excavated soil over the demarcation layer
9:30 → RPC clears up SW corner of UST excavation. CAH collects confirmatory sample (i.e. representing furthest W extent of impacted area observed in original UST Excavation. RPC removes impacted soil, working W to E along an approximately 8' wide area located to the south of the original UST Excavation
9:50 → NYSDEC Rep (Tony) onsite
10:50 → Apparent discharge pipe (i.e. same Ø as pipe observed @ S end of UST @ invert) encountered in excavation. Pipe is followed during impacted soil removal, and determined

Off Site at: / am/pm

WORK FORCE AND EQUIPMENT: Same as 9/27/16

DAY Representative (print): / DAY Representative (signed): /

Attachments: 1) **Site Plan w/Annotations, Dated** 9/28/16
2) **CAMP Air Monitoring Report** 9/28/16

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/28/17 DAY: —
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: —
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: — (Fahrenheit)
CONTRACTOR: —	

On Site at: — am/pm

COMMENTS: (cont.) to enter the concrete (basement?) wall (south facing side) approximately 1.5' from SW corner of wall, and approx 1 foot above footer. Pipe removed, causing drainage of pearched water from w/in the (basement?) wall. RPC digs a basin for the water to drain, then lunch.

13:00 → Soil removal resumes; apparent Southern edge of soil impact (ie. no longer grossly contaminated) encountered. Confirmatory sample UST Ex-8 is collected (Note: at request of NYSDEC, sufficient sample is collected to test Full TCL/TAL)

13:30 → RPC re-orients excavator to remove soil from area of greatest impact (ie adjacent to SW corner of foundation wall). Excavator maximum reach is between ~15' BGS and 15.5' BGS. Confirmatory sample collected from bottom of Excavation - Sample UST Ex-9

14:30 → RPC backfills additional areas of original UST Excavation in order to be able to continue chasing impact toward E. Placing 'clean' overburden soils from adjacent stockpile back into UST Excavation

15:00 - RPC resumes impacted soil removal along ~12' wide area, working west to east. Apparent edge of grossly impacted soil encountered ~4' east of (basement?) corner. Confirmatory sample UST Ex-10 collected from sidewall/Base @ approx center of the cut.

16:00 - NYSDEC off-site: RPC Places demarcation layer in base of (~15' BGS impacted) soil excavation area, backfilled to ~11' BGS (ie top of apparent impact zone) and places second demarcation layer to mark top of impact zone. Fences Excavation area and covers soil piles

16:50 → RPC/Day off-site

(See Sketch on Reverse)

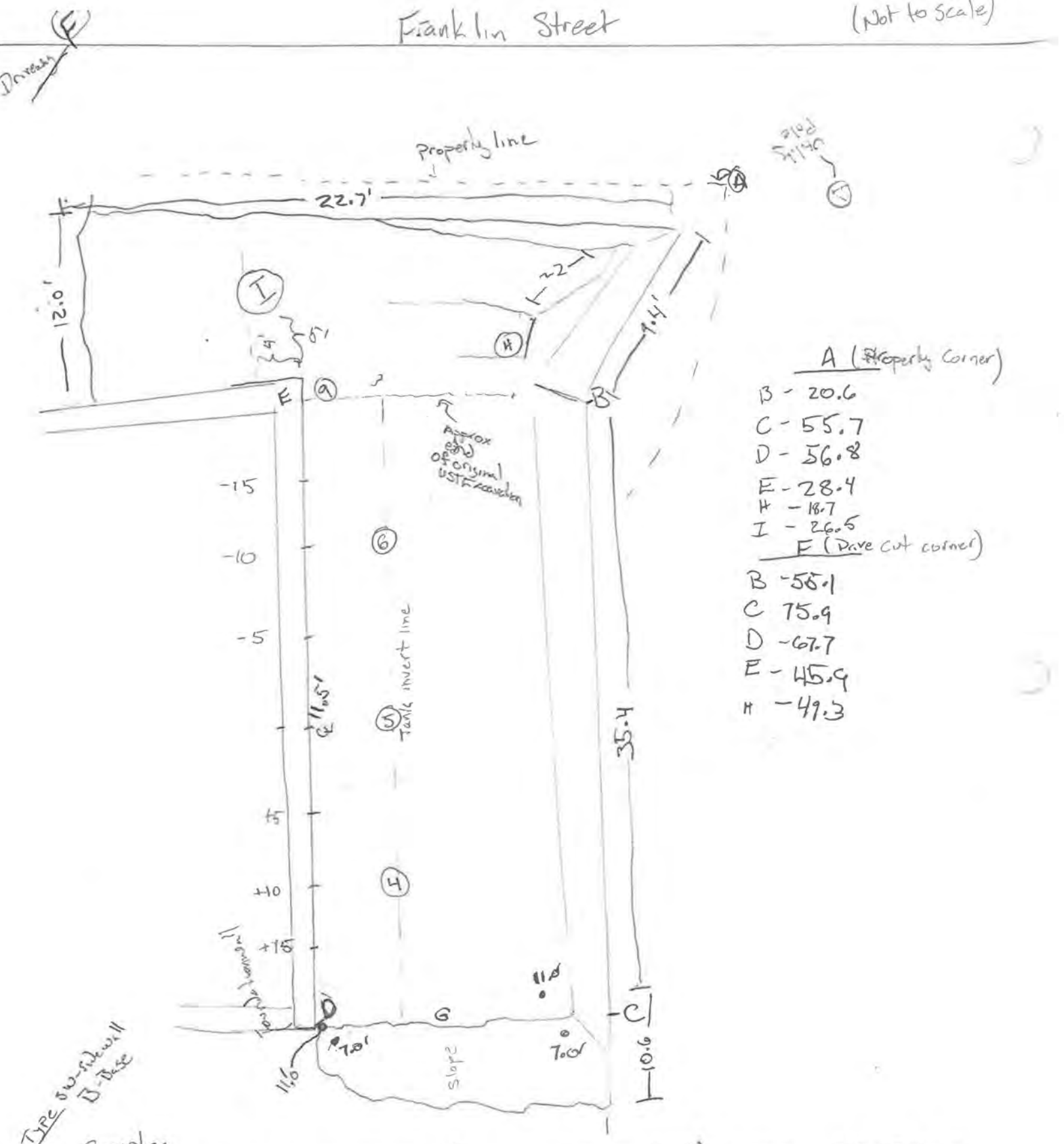
Off Site at: 16:50 am/pm

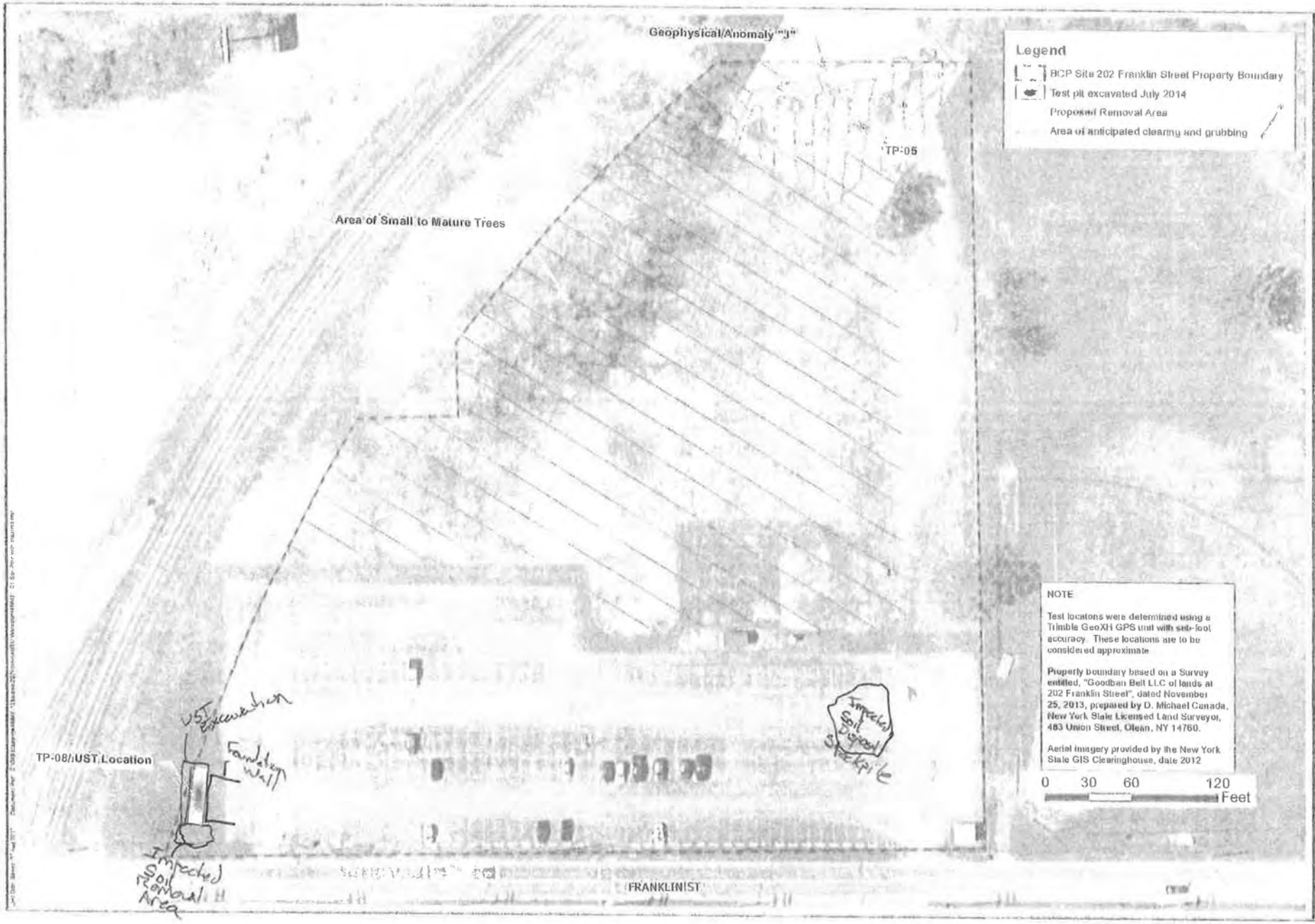
WORK FORCE AND EQUIPMENT: —

DAY Representative (print): CLH

DAY Representative (signed): Charles Hamilton

Attachments: 1) **Site Plan w/Annotations, Dated** 9/28/17
2) **CAMP Air Monitoring Report** 9/29/17


Franklin Street
(Not to scale)
Driveway
Property line
Utility Pole
22.7'
12.0'
I
H
9.4'
A (Property Corner)
B - 20.6
C - 55.7
D - 56.8
E - 28.4
H - 18.7
I - 26.5
F (Dave cut corner)
B - 58.1
C 75.9
D - 67.7
E - 45.9
H - 49.3
E
9
B
Approx edge of original USTF excavation
-15
-10
-5
+5
+10
+15
6
5
Tank invert line
@ 11.5'
35.4
4
Retaining wall
11.0
D
G
C
10.6
7.0'
Slope
7.0'
11.0
Type SW-sidewall B-Base
Samples
SW UST-1 @ D (11') - 08:10 [PID - 0.0 ppm]
SW UST-2 @ G (11') - 08:20
SW UST-3 @ base of C (11') - 08:30
B UST-4 @ +10 - 40" from wall (11.5') - 08:40
B UST-5 @ ℄ - 40" from wall (12.0') - 08:50
B UST-6 @ -10 . 40" from wall (12.5') - 09:00
SW UST-7 @ B (12') - 09:40 PID = 10.4 ppm
SW UST-8 @ H (15') - 13:53 PID = 35 ppm
B UST-9 @ E ~ 1.5' from wall (15.5') 14:25 PID = 55 ppm
SW/B UST 10 @ I ~ 5' S of wall (15.5') 15:45 PID = 80 ppm



Drawn By	RLK
Date Drawn	05-2017
Checked By	CAH
Date Checked	05-2017
Scale	AS NOTED
Date Issued	08-07-2017

Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Site
202 FRANKLIN STREET
OLEAN, NEW YORK

9/28/2017

BCP SITE NO. C905043 WORK PLAN

Site Plan Depicting Work Locations

Project No.
4884S-13

FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 9/28/17 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 06:50 OFF-SITE: 16:50

WEATHER CONDITIONS: Cloudy - 60's PREVAILING WIND DIRECTION: from W & N

PERSONNEL ON-SITE: RPC / DAY / Soil Epoxy / NYSDEC

NOTES:

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Excavation begins (UST exc.)	07:30	①		
	07:45	①	0.1	0.003
	08:00	①	0.1	0.000
Excavation Stop	08:15	①	0.1	0.004
Excavation Start - strip overburden	09:15	①		
	09:30	①	0.1	0.008
Impacted Soil removal	09:45	①	0.1	0.003
	10:00	①	0.1	0.000
	10:15	①	0.0	0.000
	10:30	①	0.0	0.000
	10:45	①	0.0	0.001
	11:00	①	0.0	0.003
	11:15	①	0.0	0.000
	11:30	①	0.0	0.001
	11:45	①	0.0	0.000
	12:00	①	0.0	0.000
	12:15	①	0.0	0.000
	12:30	①	0.0	0.000
Lunch				

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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day
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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 9/28/17 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Resume Excavation	13:00	①		
	13:15	①	0.0	0.023
	13:30	①	0.1	0.014
	13:45	①	0.1	0.012
	14:00	①	0.0	0.008
	14:15	①	0.0	0.019
Backfill & Move stockpile	14:30	①	0.0	0.013
	14:45	①	0.0	0.013
Excavation Resumes	15:00	①	0.0	0.007
	15:15	①	0.0	0.004
	15:30	①	0.0	0.007
Excavation Ends	15:43	①	0.0	0.002
Backfill Resumes	16:00	①	0.0	0.008
	16:15	①	0.0	0.015
Backfill complete	16:25			

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

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FAX (212) 986-8657

Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaten
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
N
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
FRANKLIN ST.
0 35 70 140
Feet
DESIGNED BY RLK
DATE 11-2013
DRAWN BY CPS
DATE DRAWN 11-2013
SCALE AS NOTED
DATE ISSUED 11-18-2013
dEI
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
Drawing Title
HEALTH AND SAFETY PLAN
9/28/17
Proposed Community Air Monitoring Plan Locations
Project No.
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 9/29/17 DAY: Friday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Overcast
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: ~60° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 08:40 am/pm

COMMENTS:

- RPC onsite upon arrival; completing backfill of UST Excavation and site cleanup
- CAH collects ~~confirmatory~~ waste profile samples from the metal waste stockpile and the UST removal stockpile

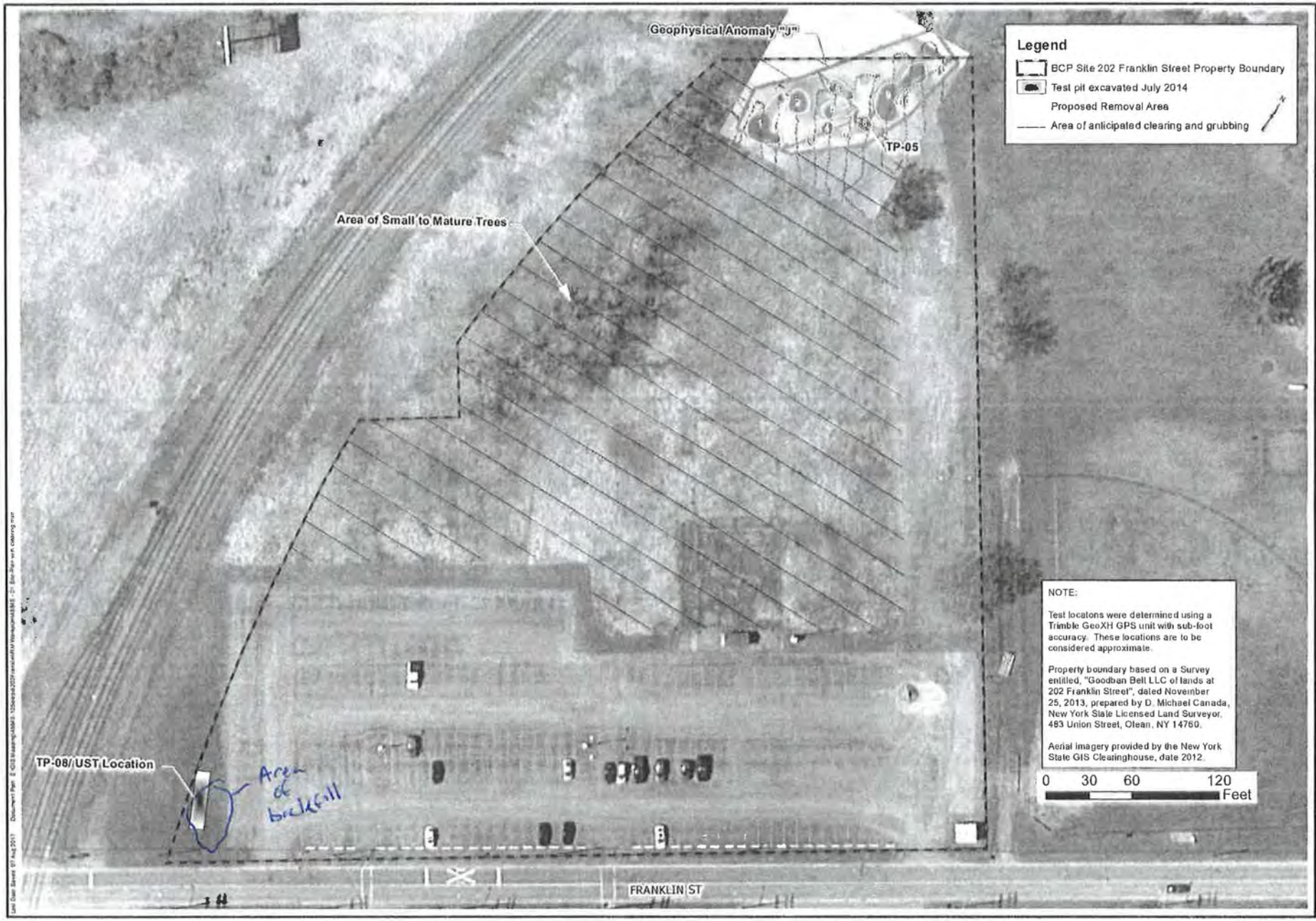
Off Site at: 11:15 am/pm

WORK FORCE AND EQUIPMENT: RPC - Hitachi 160 LC Excavator and Tri-Axel Dumptrucks.

DAY Representative (print): Charles Humpton DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** 9/29/17

~~2) **CAMP Air Monitoring Report**~~



DESIGNED BY: RLK — DATE: 05-2017
DRAWN BY: CAH — DATE DRAWN: 05-2017
SCALE: AS NOTED — DATE ISSUED: 08-07-2017

DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
Drawing Title: Site Plan Depicting Work Locations

9/29/17

Project No: 4884S-13

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: October 23, 2017 DAY: Monday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Sunny / Partly Sunny
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 60° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 08:05 am/pm

COMMENTS:

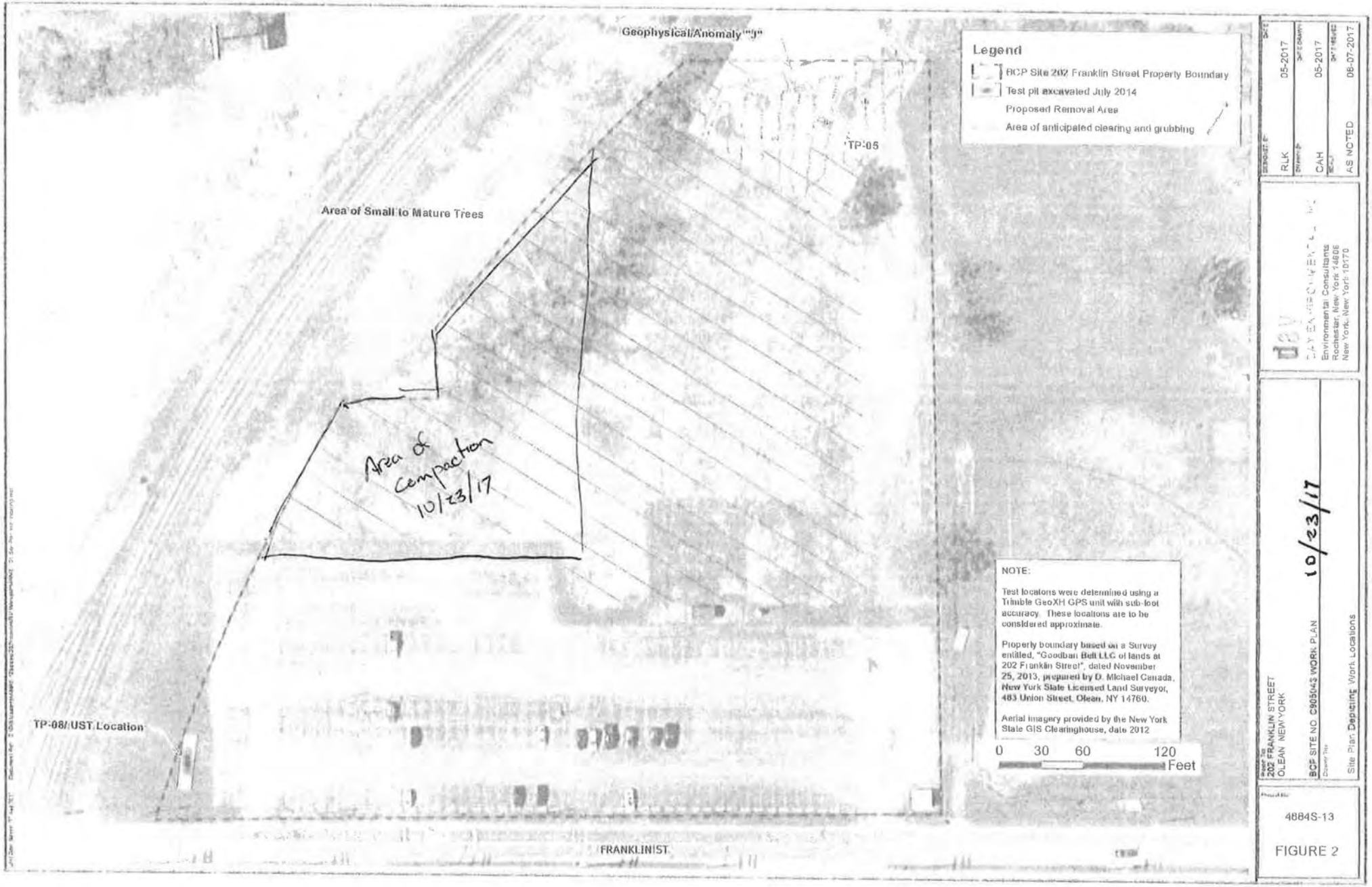
08:05 - CAH onsite. RPC (Chuck, Foreman) onsite upon arrival. Compaction using Sheep-foot Vibratory compactor under way on western portion of Site. Discussed plan w/ Chuck (RPC), who reported that the west portion would be compacted, followed by east portion. C&D materials would be compacted at surface, and only removed if hearing once compacted. CAH Calibrated PID & Zeroed dust meter
08:20 - Set up CAMP for BG and met w/ M. Wandel
08:40 - Set up CAMP @ E property line
12:15 - Lunch break
12:45 - Compaction work resumes
14:45 - Camp Monitoring ended based on evaluation of last ~6 hrs
15:00 - CAH off-site

Off Site at: 15:00 am/pm

WORK FORCE AND EQUIPMENT: Richard Peck Construction - Volvo SD115 vibratory compactor; Stone Rhino drum compactor

DAY Representative (print): Charles Hampton DAY Representative (signed): CH

Attachments: 1) **Site Plan w/Annotations, Dated** 10/23/17
2) **CAMP Air Monitoring Report** 10/23/17


Geophysical Anomaly "g"
TP-05
Area of Small to Mature Trees
Area of compaction 10/23/17
TP-08/UST Location
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE:
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate.
Property boundary based on a Survey entitled, "Goodban Bell LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
RLK 05-2017
CAH 05-2017
AS NOTED 06-07-2017
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
10/23/17
Site Plan Depicting Work Locations
4884S-13
FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 10/23/17 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 08:05 OFF-SITE: 15:00

WEATHER CONDITIONS: Partly Sunny PREVAILING WIND DIRECTION: SSW

PERSONNEL ON-SITE: RPC

NOTES: RPC Compacting w/ vibratory roller - working over West side of Site in AM

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
BG - Start	08:20	(1)	—	—
BG	08:35	(1)	0.0	0.006
CAMP - Start	08:40	(2)	—	—
CAMP	08:55	(2)	0.0	0.002
CAMP	09:10	(2)	0.0	0.001
CAMP	09:25	(2)	0.0	0.001
CAMP	09:40	(2)	0.0	0.001
CAMP	09:55	(2)	0.0	0.001
CAMP	10:10	(2)	0.0	0.002
Wind shifting - from S	Moved to	(3)	—	—
CAMP	10:30	(3)	0.0	0.002
CAMP	10:45	(3)	0.0	0.003
CAMP	11:00	(3)	0.0	0.003
CAMP	11:15	(3)	0.0	0.003
CAMP	11:30	(3)	0.0	0.004
CAMP	11:46	(3)	0.0	0.004
CAMP	12:00	(3)	0.0	0.003
CAMP	12:12	(3)	0.0	0.003
Lunch break 12:12 - 12:45	—	—	—	—

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 10/23/17 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
CAMP	13:00	(3)	0.0	0.001
CAMP	13:15	(3)	0.0	0.001
CAMP	13:30	(3)	0.0	0.001
CAMP	13:45	(3)	0.0	0.002
CAMP	14:00	(3)	0.0	0.001
CAMP	14:15	(3)	0.0	0.001
CAMP	14:30	(3)	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

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DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE(S) DRAWN 11-2013
SCALE AS NOTED DATE REVISED 11-18-2013

dey
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

HEALTH AND SAFETY PLAN 10/23/17

Drawing Title
Proposed Community Air Monitoring Plan Locations

Project No
4884S-13

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: November 2, 2017 DAY: Thursday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Overcast, occasional light showers
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 55° (Fahrenheit)
CONTRACTOR: Richard Peck Construction	

On Site at: 08:10 am/pm

COMMENTS:

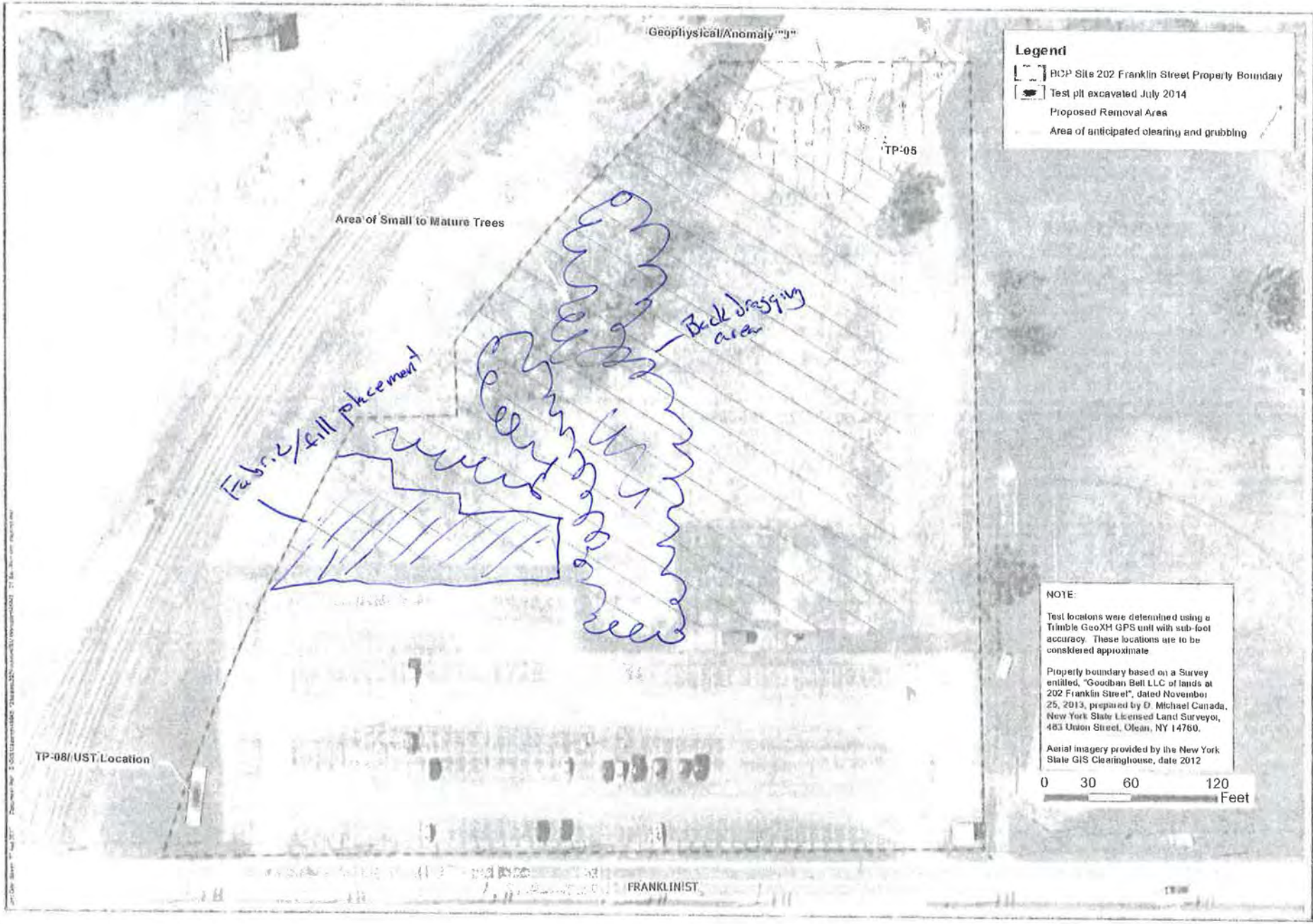
08:10 → CAH onsite. Met w/ RPC reps (Richard and Travis) to review plan for day (i.e., backdrag areas w bulldozer to even surface, then place fabric.
08:15 → RPC off-site to mobilize equipment. CAH met w/ Mark Wandell RE: soil & waste drums
09:00 → RPC Returns to site
09:10 - RPC Begins backdrag work on SW portion of site, working toward the NE - Placing fabric W to E and spreading bank run (import) over fabric
12:15 - RPC Breaks for lunch
12:40 - Work Resumes
15:00 - Backdrag/fill work completed - RPC rolling bank run w/ vibratory compactor

Off Site at: 15:00 am/pm

WORK FORCE AND EQUIPMENT: RPC - Caterpillar Bulldozer, Volvo vibratory comp, Caterpillar track-mounted skid-steer, tri-Axel dump trucks

DAY Representative (print): Charles Hampton DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** 11/2/17
2) **CAMP Air Monitoring Report** 11/2/17


Geophysical/Anomaly "g"
TP-05
Area of Small to Mature Trees
Back dragging area
Fabric/fill placement
TP-08/UST Location
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE:
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate
Property boundary based on a Survey entitled, "Goodban Bell LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
RLK
05-2017
CAH
05-2017
AS NOTED
08-07-2017
Environmental Consultants
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New York, New York 10170
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
Site Plan Depicting Work Locations
4884S-13
FIGURE 2

day
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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 11/2/2017 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 08:15 OFF-SITE: 15:00

WEATHER CONDITIONS: Overcast PREVAILING WIND DIRECTION: From SW

PERSONNEL ON-SITE: RPC construction

NOTES: Due to results of previous CAMP monitoring, PID readings not collected today.

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
CAMP - Start	09:00	1	—	—
CAMP	09:15	1	—	0.002
CAMP	09:30	1	—	0.000
CAMP	09:45	1	—	0.000
CAMP	10:00	1	—	0.000
CAMP	10:15	1	—	0.000
CAMP	10:30	1	—	0.000
CAMP	10:45	1	—	0.000
CAMP	11:00	1	—	0.000
CAMP	11:15	1	—	0.000
CAMP	11:30	1	—	0.000
CAMP	11:45	1	—	0.000
CAMP	12:00	1	—	0.000
CAMP	12:15	1	—	0.000
	Lunch Break	12:15 - 12:40		
CAMP - Resume	12:40	1	—	—
CAMP	12:55	1	—	0.000
CAMP	13:10	1	—	0.000
CAMP	13:25	1	—	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 11/2/2017 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
CAMP	13:40	①	—	0.000
CAMP	13:55	①	—	0.000
CAMP	14:10	①	—	0.000
CAMP	14:25	①	—	0.000
CAMP	14:40	①	—	0.000
CAMP	14:55	①	—	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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DESIGNED BY: RLK — DATE: 11-2013
DRAWN BY: CPS — DATE DRAWN: 11-2013
SCALE: AS NOTED — DATE ISSUED: 11-18-2013

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Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project No: 4884S-13

Project Title: 202 FRANKLIN STREET, OLEAN, NEW YORK

Drawing Title: HEALTH AND SAFETY PLAN

Proposed Community Air Monitoring Plan Locations

11/2/17

FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: January 9th, 2018 DAY: Tuesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Overcast, wind from NW
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: ~30° (Fahrenheit)
CONTRACTOR: RPC & D+H Trucking	

On Site at: 07:50 am/pm

COMMENTS:

07:50 - CAH onsite - Richard Peck Construction onsite - uncovering soil/waste piles; set up CAMP
07:55 - D+H Trucks onsite; loading of UST Excavation soil starts (see truck count below)
09:15 - RPC working on cleanup after 1st Round of trucks; CAMP Paused - CAH to 211 Franklin to discuss records w/ M. Wendel
10:05 - First of trucks return for second round of loading
↳ RPC folds and stockpiles poly sheeting between loading trucks
↳ M. Wendel reports last 2 trucks (10 & 31) were turned around per his request, then requested to site per loading (#31 does not Return)
12:05 - Second round loading completed → RPC continues to consolidate pile
13:25 - last trucks loaded - Total of 19 Truck loads
13:55 - CAH off-site

Truck #	Waste pile	Time off-site
52	UST Exc.	08:20
20	UST Exc.	08:20
67 (Tracy)	UST Exc	08:20
35	UST Exc	08:50
40	metal waste	08:55
27	metal waste	09:00
29	metal waste	09:05
10 (Tracy)	Metal waste	09:07
*31 (Draper)	metal waste	09:11

(continued on page 2)

Off Site at: 13:55 am/pm

WORK FORCE AND EQUIPMENT:

(* Not Planned for Part 36; ~~Part~~ permit on truck - see photo)
RPC - CATERPILLAR 277B skid-steer; VOLVO L150F Loader

DAY Representative (print): Charles Hampton DAY Representative (signed): [signature]

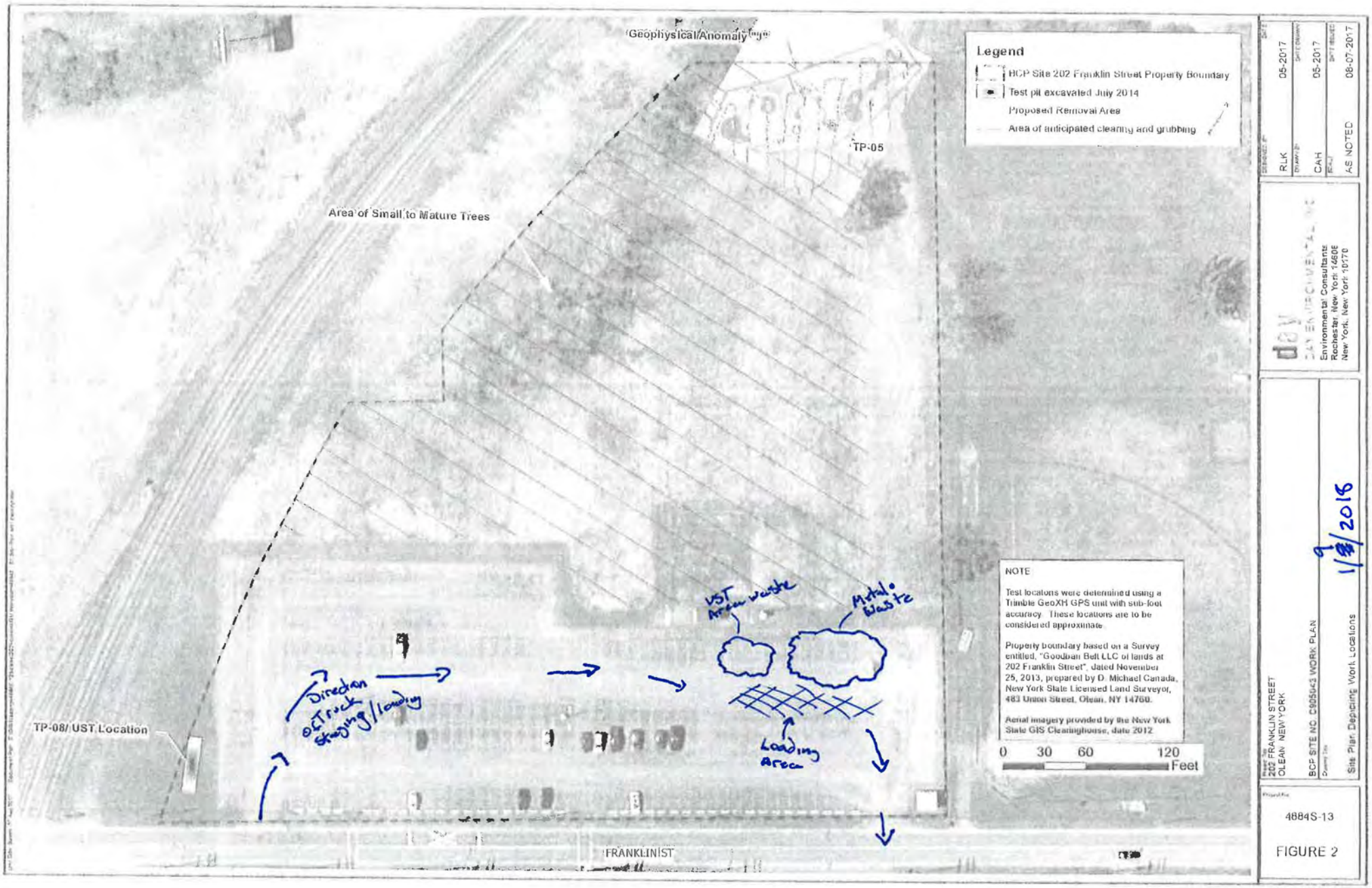
Attachments: 1) **Site Plan w/Annotations, Dated** 1/9/2018
2) **CAMP Air Monitoring Report** 1/9/2018

DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
1563 LYELL AVENUE, ROCHESTER, NY 14606

Truck #	Waste Pile	Time off-site
52	metal waste	10:30
67	metal waste	10:32
20	metal waste	10:35
35	Metal waste	11:00
27	Metal waste	11:10
40	Metal waste	11:15
29	Metal waste	11:20
10	Metal waste	~~11:40~~ 12:05
52	Metal waste	12:35
27	Metal waste	13:25

CALC BY: CAH DATE: 1/9/2018 PROJECT NO.: Solo To 48845-13

CH'KD BY: / DATE: / DESCRIPTION: Waste Loading / Transport - continued


Geophysical Anomaly
TP-05
Area of Small to Mature Trees
TP-08/ UST Location
Direction of truck staging/loading
VST Area waste
Metal waste
Loading Area
FRANKLIN ST
Legend
BCP Site 202 Franklin Street Property Boundary
Test pit excavated July 2014
Proposed Removal Area
Area of anticipated clearing and grubbing
NOTE
Test locations were determined using a Trimble GeoXH GPS unit with sub-foot accuracy. These locations are to be considered approximate.
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012
0 30 60 120
Feet
RLK
05-2017
CAH
05-2017
AS NOTED
08-07-2017
Environmental Consultants
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New York, New York 10170
202 FRANKLIN STREET
OLEAN, NEW YORK
BCP SITE NO. C905043 WORK PLAN
Site Plan Depicting Work Locations
1/8/2018
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: January 9, 2018 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: NYSDEC BCP Site No. C905043 (202 Franklin Street, Olean, NY)

BY: C. Hampton

ON-SITE: 07:55 OFF-SITE: 13:56

WEATHER CONDITIONS: Overcast ~30° PREVAILING WIND DIRECTION: From NW

PERSONNEL ON-SITE: Richard Peck construction / Dott Trucking

NOTES:

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
START CAMP	07:55	①	—	—
CAMP	08:10	①	0.0	0.035
	08:25	①	0.0	0.033
	08:40	①	0.0	0.037
	08:55	①	0.0	0.052
	09:10	①	0.0	0.037
Trucks off-site CAMP PAUSED				
START CAMP	10:00	①	—	—
	10:15	①	0.0	0.019
	10:30	①	0.0	0.024
	10:45	①	0.0	0.022
	11:00	①	0.0	0.019
	11:15	①	0.0	0.018
	11:30	①	0.0	0.018
	11:45	①	0.0	0.015
	12:00	①	0.0	0.016
	12:15	①	0.0	0.017
	12:30	①	0.0	0.017
	12:45	①	0.0	0.015

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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AIR MONITORING REPORT SHEET (Continued)

DATE: 1/9/18 PAGE: 2 OF 2

JOB #: 4884S-13

DESCRIPTION	TIME	LOCATION (refer to reference ID on attached figure)	PID (ppm)	PARTICULATES (mg/m3)
Loading Paused - CAMP suspended				
CAMP Resumed	13:15	①	0.0	0.012
CAMP complete	13:30	①	0.0	0.009

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

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Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaton
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
N
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.
FRANKLIN ST
0 35 70 140
Feet
DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE DRAWN 11-2013
SCALE AS NOTED DATE REVISED 11-18-2013
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
HEALTH AND SAFETY PLAN
1/9/2018
Drawing Title
Proposed Community Air Monitoring Plan Locations
Project No.
4884S-13
FIGURE 2

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 7.30.2019 DAY: Tue
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: 67 -> 80°F Wind SW at 5 mph
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 70° (Fahrenheit)
CONTRACTOR: Richard Peck Construction	

On Site at: 7.15 (am)/pm

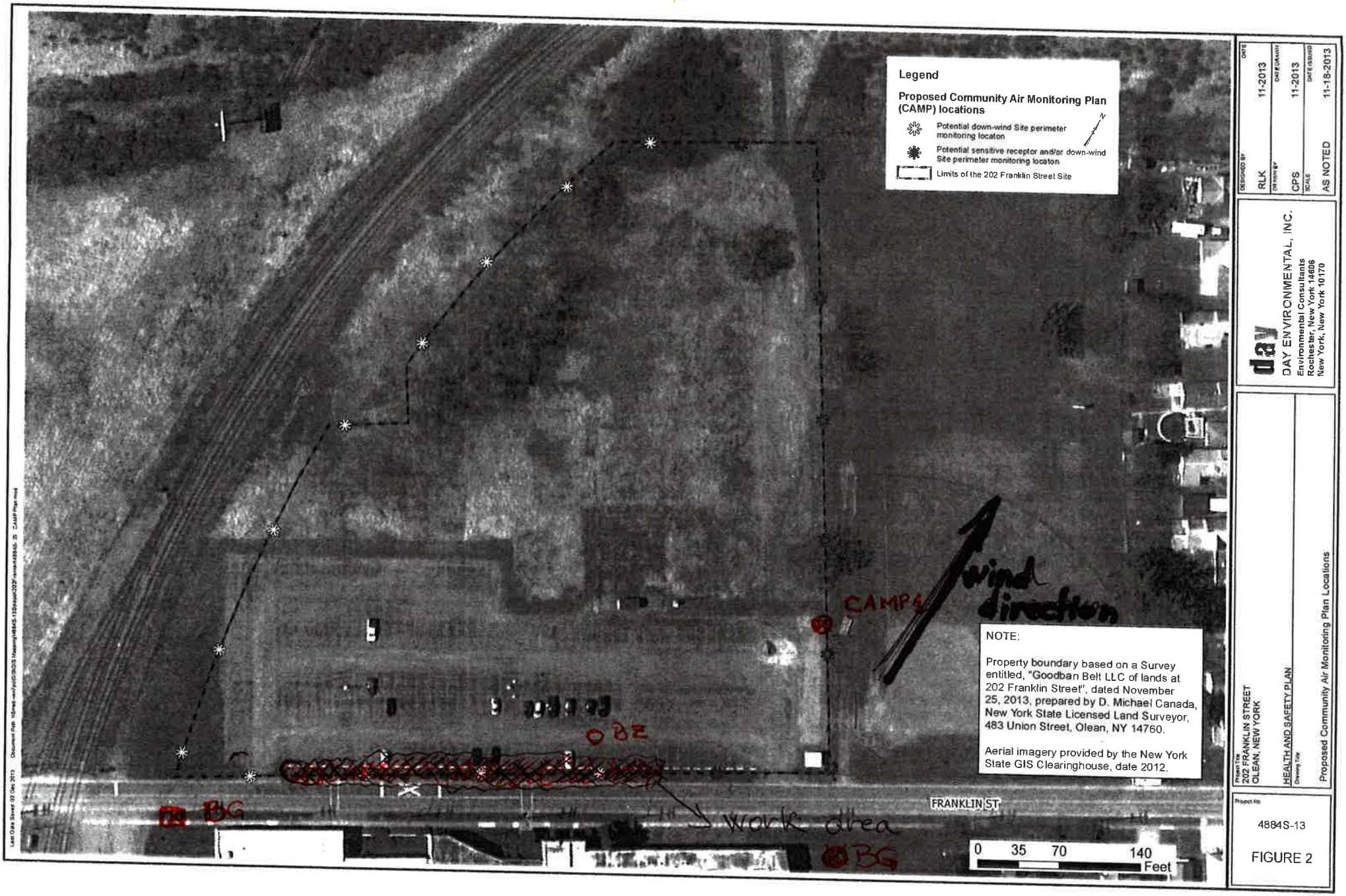
COMMENTS: Start working in area highlighted on the map attached along Franklin St
The contractor is digging according with the plans -> see pics
A delimitation orange net is layed down
CAMP Monitoring according with work plan
Very humid and very dense fog.
At same time, clean fill is brought to the field to be compacted

Off Site at: 15:25 am/(pm)

WORK FORCE AND EQUIPMENT: Richard Peck Construction
1 - Bobcat
1 - Excavator
2 - Trucks

DAY Representative (print): Catalin Denion DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** _____
2) **CAMP Air Monitoring Report** _____


Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaton
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
CAMP 4
wind direction
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.
FRANKLIN ST
work area
0 35 70 140 Feet
DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE 11-2013
SCALE AS NOTED DATE ISSUED 11-18-2013
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title 202 FRANKLIN STREET OLEAN, NEW YORK
Drawing Title HEALTH AND SAFETY PLAN
Proposed Community Air Monitoring Plan Locations
Project No 4884S-13
FIGURE 2

7/30/2019

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 7/30/2019 PAGE: 1 OF 2

JOB #: ~~5F2915-13~~ 48845-13 Solepo

SITE: 202 Franklin St Olean NY

BY: Catalina Denison

ON-SITE: 7:15 OFF-SITE: 15:35

WEATHER CONDITIONS: Sunny 67°→80 PREVAILING WIND DIRECTION: SW at 5mph

PERSONNEL ON-SITE: Richard Peck Construction

NOTES:

Humidity 100% (dense fog)

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	7:25		0.0	0.000
B2	7:30		0.0	0.000
CAMP 1	7:45		0.0	0.000
	8:00		0.2	0.000
	8:15		0.2	0.000
	8:30		0.3	0.000
	8:45		0.3	0.000
	9:00		0.4	0.000
	9:15		0.6	0.000
	9:30		0.0	0.000
	9:45		0.0	0.000
	10:00		0.0	0.000
	10:15		0.0	0.000
	10:30		0.0	0.000
	10:45		0.0	0.000
	11:00		0.0	0.000
	11:15		0.0	0.000
	11:30		0.0	0.000
	11:45		0.0	0.000
CAMP	12:00		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

S:/fieldforms/Air Monitoring

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day
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AIR MONITORING REPORT SHEET (Continued)

DATE: 7/30/2019 PAGE: 2 OF 2

JOB #: 48845-13 Solepo

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
CAMP	12:15		0.0	0.000
	12:30		0.0	0.000
	12:45		0.0	0.000
	13:00		0.0	0.000
	13:15		0.0	0.000
	13:30		0.0	0.000
	13:45		0.0	0.000
	14:00		0.0	0.000
	14:15		0.0	0.000
	14:30		0.0	0.000
	14:45		0.0	0.000
	15:00		0.0	0.000
	15:15		0.0	0.000
CAMP	15:20	Stop work	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

S:/fieldforms/Air Monitoring

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DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 7/31/2019 DAY: Wed.
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Fog
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 65° (Fahrenheit)
CONTRACTOR: Richard Peck	

On Site at: 7:30 am/pm

COMMENTS: Discussions between Ray K and Mark W
Wait for DEC representative

Joey from DEC on site -> start discussions with Ray K, Mark W and Richard Peck and Jeff (from Sol Epoxy)

- IRM Hazmat Response Team is on site

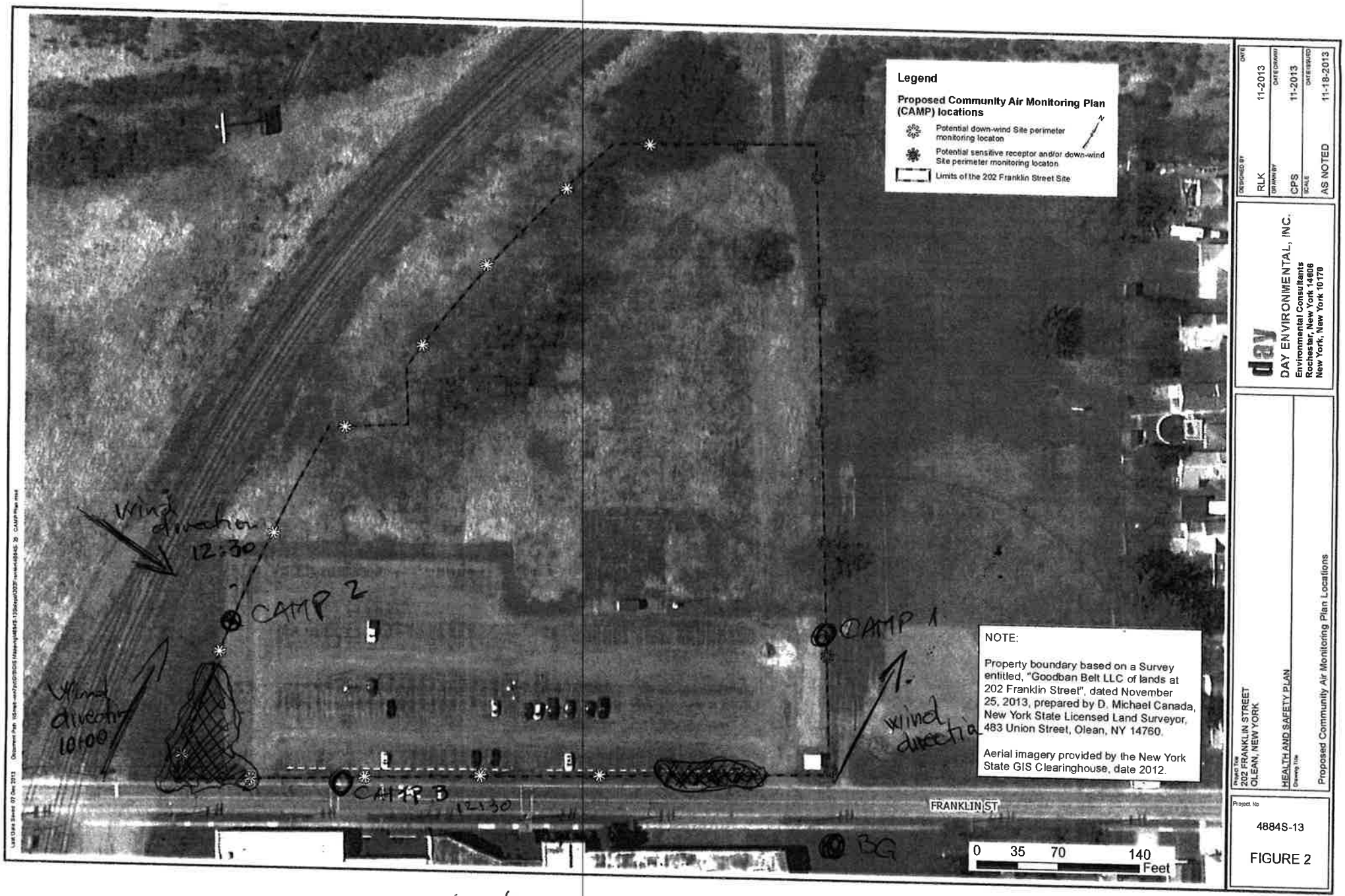
Wind is calm but unstable
Changed CAMP 2 times from initial one

Off Site at: 15:40 am/pm

WORK FORCE AND EQUIPMENT: Richard Peck Construction
- 2 load trucks
1 Excavator
1 Bobcat (push)

DAY Representative (print): Catalin Denisa DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated**_____
2) **CAMP Air Monitoring Report** _____


Legend
Proposed Community Air Monitoring Plan (CAMP) locations
Potential down-wind Site perimeter monitoring locaton
Potential sensitive receptor and/or down-wind Site perimeter monitoring locaton
Limits of the 202 Franklin Street Site
N
Wind direction 12:30
CAMP 2
CAMP 1
Wind direction 10:00
Wind direction
CAMP 3
12:30
FRANKLIN ST
BG
NOTE:
Property boundary based on a Survey entitled, "Goodban Belt LLC of lands at 202 Franklin Street", dated November 25, 2013, prepared by D. Michael Canada, New York State Licensed Land Surveyor, 483 Union Street, Olean, NY 14760.
Aerial imagery provided by the New York State GIS Clearinghouse, date 2012.
0 35 70 140
Feet
DESIGNED BY RLK
DATE 11-2013
DRAWN BY CPS
DATE DRAWN 11-2013
SCALE AS NOTED
DATE ISSUED 11-18-2013
day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170
Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK
HEALTH AND SAFETY PLAN
Drawing Title
Proposed Community Air Monitoring Plan Locations
Project No
4884S-13
FIGURE 2

7/31/2019

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 7/31/2019 PAGE: 1 OF 2

JOB #: 4884S-13

SITE: 202 Franklin S Olean NY

BY: Catalin Dennion

ON-SITE: 7:25 OFF-SITE: 15:35

WEATHER CONDITIONS: Sunny 68→85° PREVAILING WIND DIRECTION: Calm

PERSONNEL ON-SITE: Richard Peak

NOTES: Wind direction is very unstable with high level of humidity (100%)

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	7:30			
CAMP	7:45	CAMP	0.0	0.000
CAMP	8:00		0.0	0.000
	8:15		0.0	0.000
	8:30		0.0	0.000
	8:45		0.0	0.000
	9:00		0.0	0.000
	9:15		0.0	0.000
	9:30		0.0	0.000
	9:45		0.0	0.000
	9:80	CAMP 2	0.0	0.000
	10:15		0.0	0.000
	10:30		0.0	0.000
	10:45		0.0	0.000
	11:00		0.0	0.000
	11:15		0.0	0.000
	11:30		0.0	0.000
	11:45		0.0	0.000
Lunch	12:00	CAMP 3	0.0	0.000
	12:30		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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ENVIRONMENTAL CONSULTANTS
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AIR MONITORING REPORT SHEET (Continued)

DATE: 7/31/2019 PAGE: 2 OF 2

JOB #: 48845-13

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
CAMP 3	12:45		0.0	0.000
	13:00		0.0	0.000
	13:15		0.0	0.000
	13:30		0.0	0.000
	13:45		0.0	0.000
	14:00		0.0	0.000
	14:15		0.0	0.000
	14:30		0.0	0.000
	14:45		0.0	0.000
	15:00		0.0	0.000
	15:15		0.0	0.000
	15:30		0.0	0.000
STOP	15:35		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/1/2019 DAY:
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Foggy
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 72 (Fahrenheit)
CONTRACTOR: Richard Peck Contractor	

On Site at: 9:15 am/pm

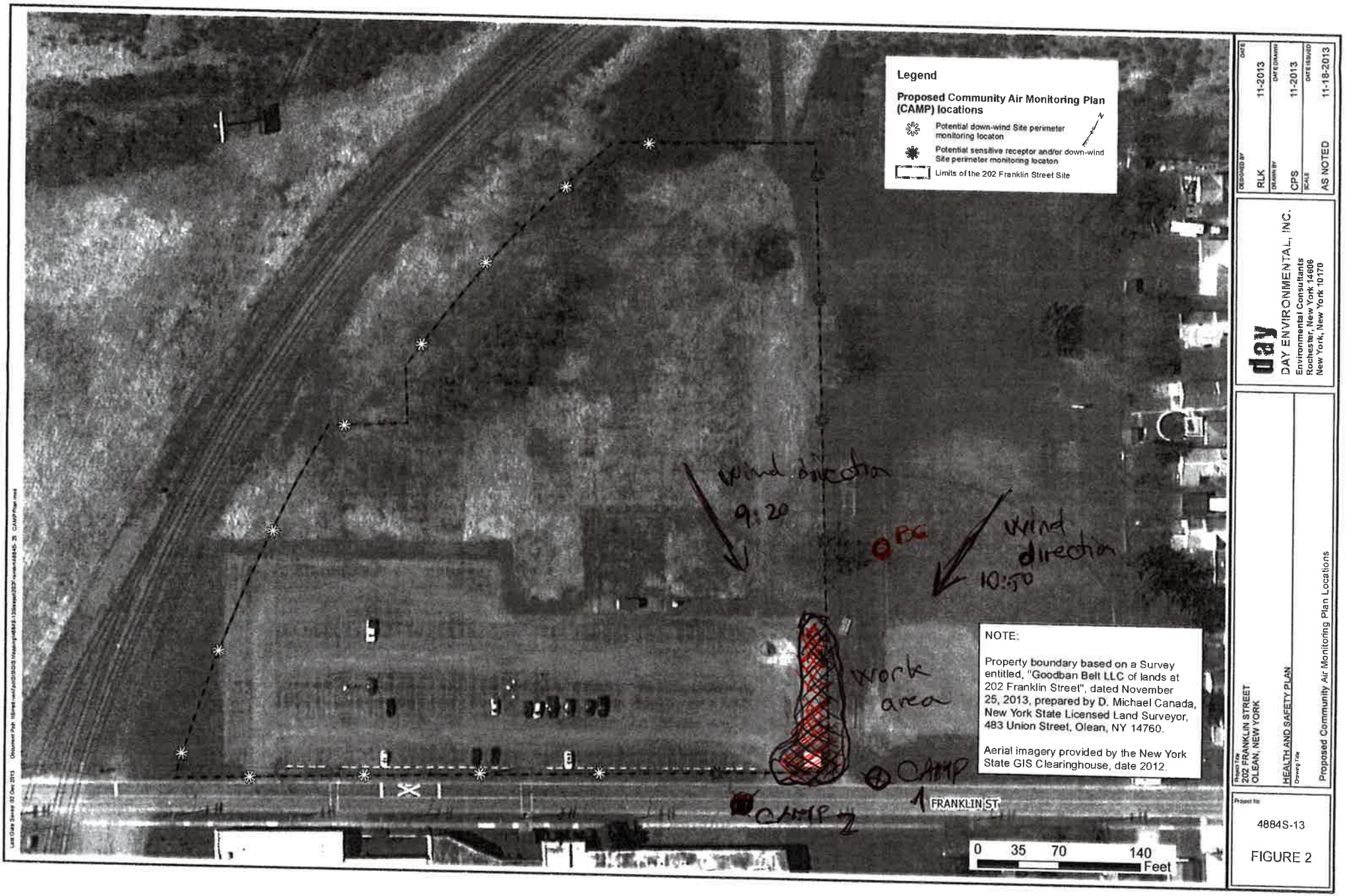
COMMENTS: Traffic Incident on the way to Olean
Late on site
Start CAMP Monitoring
Change Camp ~~because off~~ because of
wind direction

Off Site at: 15:55 am/pm

WORK FORCE AND EQUIPMENT:
1 - Bobcat
1 - Excavator
2 Trucks

DAY Representative (print): Catalina Zenia DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated**_____
2) **CAMP Air Monitoring Report** _____



DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE DRAWN 11-2013
SCALE AS NOTED DATE ISSUED 11-18-2013

day
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Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title: 202 FRANKLIN STREET OLEAN, NEW YORK
Drawing Title: HEALTH AND SAFETY PLAN
Proposed Community Air Monitoring Plan Locations

Project No: 4884S-13

FIGURE 2

8/1/2019

day
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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 8/1/2019 PAGE: 1 OF 2

JOB #: 48845-13

SITE: 202 Franklin St Olean NY

BY: Catalin Demion

ON-SITE: 9:10 OFF-SITE:

WEATHER CONDITIONS: Sunny PREVAILING WIND DIRECTION: NNE at 5 mph

PERSONNEL ON-SITE: Richard Peck and Mark.

NOTES:

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	9:15		0.0	0.000
CAMP	9:20	CAMP	0.0	0.000
	9:45		0.0	0.000
	10:00		0.0	0.000
	10:15		0.0	0.000
	10:30		0.0	0.000
	10:45		0.0	0.000
Change camp	10:50	-> wind shift	0.0	0.000
	11:00		0.0	0.000
	11:15		0.0	0.000
	11:30		0.0	0.000
	11:45		0.0	0.000
	12:00		0.0	0.000
	12:30		0.0	0.000
	12:45		0.0	0.000
	13:00		0.0	0.000
	13:15		0.0	0.000
	13:30		0.0	0.000
	13:45		0.0	0.000
	14:00		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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AIR MONITORING REPORT SHEET (Continued)

DATE:_____ PAGE: 2 OF 2

JOB #:____ ____ _____

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
Background	14:05		0.0	0.050
CAMP	14:15		0.0	0.000
	14:30		0.0	0.000
	14:45		0.0	0.000
	15:00		0.0	0.000
	15:20		0.0	0.000
STOPPED	15:25		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/13/2019 DAY: Tue
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Overcast
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 68° (Fahrenheit)
CONTRACTOR: Richard Peck Construction (RPC)	

On Site at: 9:15 am/pm

COMMENTS: RPC workers start working on the trench ocording with the plans.
On the northern ~~road~~ area of the property where contaminated soil is located, they started to create a berm. The delimiation orange net is put in place
After discussion with Mark and Richard Peck the job is going to stop until Monday 19.
Today, tomorrow and a day after they will continue digging the entire channel until the delimiation fabric

Off Site at: 12:00 am/pm

WORK FORCE AND EQUIPMENT: 2 people ~~and~~ 1 truck and one bobcat excavator

DAY Representative (print): Catalin Denisa DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated**_____
2) **CAMP Air Monitoring Report** _____

DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/21/2019 DAY: Wednesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Rain → Overcast
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 64° (Fahrenheit)
CONTRACTOR: RPC (Richard Peck Construction Inc	

On Site at: 7:48 am/pm

COMMENTS: Nobody on site → until 8:40
9:00 Start working at the trench
No wind → calm. Set up CAMP near work area
10:15 Wind 5 mph SW
11:00 Start using small truck to dump soil in the back pile → ~~soil~~ ground is wet.
11:45 Break (lunch)
12:15 Work resume with the trench
13:15 Wind 6 mph WSW 75°F Cloudy
Mark W on site
14:00 Trench is 15' wide and it slopes towards center line. The tolweg line is at 2' deep and the edges are 1' below the blacktop.
Today RPC crew dug about 160' of trench
14:45 : Stopped working (digging) and start cleaning the site. The old ~~delimitation~~ demarcation fabric is loaded in ~~truck~~ to be dispose. A new material is going to be laid down
15:00 Start creating the berm to make room for more contaminated soil

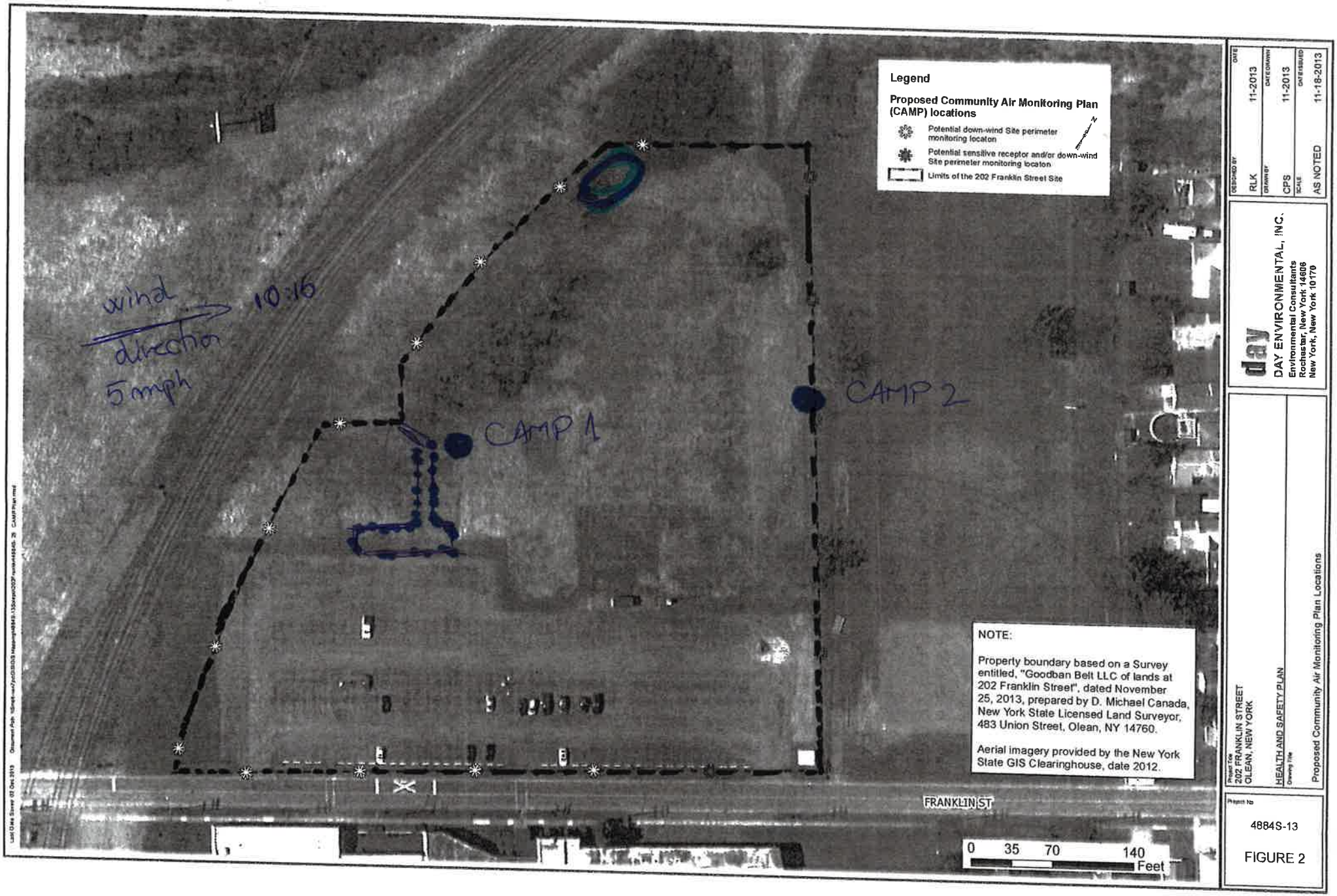
Off Site at: 15:15 am/pm

WORK FORCE AND EQUIPMENT:
1 excavator
1 truck (12 wheels)
1 truck (1 ton)

DAY Representative (print): Catalin Dervion DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** yes
2) **CAMP Air Monitoring Report** yes

8/21/2019



DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE (MM/YY) 11-2013
SCALE AS NOTED DATE ISSUED 11-18-2013

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

HEALTH AND SAFETY PLAN

Drawing Title
Proposed Community Air Monitoring Plan Locations

Project No
4884S-13

FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 8/21/2019 PAGE: 1 OF 2

JOB #: 4884 S-13 Solepo

SITE: 202 Franklin St Oleon NY

BY: Catalin Denion (Day Environmental)

ON-SITE: 7:48 OFF-SITE:

WEATHER CONDITIONS: Rain PREVAILING WIND DIRECTION: Calm

PERSONNEL ON-SITE: 8:40 2 of RPC people

NOTES: 9:00 Start working around the drainage area of the trench

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	8:05	BG	0.0	0.000
CAMP 1	9:00	CAMP	0.0	0.000
	9:15		0.0	0.000
	9:30		0.0	0.000
	9:45		0.0	0.000
	10:00		0.0	0.000
CAMP 2	10:15		0.0	0.000
	10:30		0.0	0.000
	10:45		0.0	0.000
	11:00		0.0	0.000
	11:15		0.0	0.000
	11:30		0.0	0.000
STOP	11:45	- Lunch -	0.0	0.000
START	12:15		0.0	0.000
	12:30		0.0	0.000
	12:45		0.0	0.000
	13:00		0.0	0.000
	13:15		0.0	0.000
	13:30		0.0	0.000
	13:45		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 8/21/2019 PAGE: 2 OF 2

JOB #:

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
	14:00	CAMP	0.0	0.000
	14:15		0.0	0.000
	14:30		0.0	0.000
	14:45		0.0	0.000
STOP WORK - Start clean up site				
Start creating berm	15:00			

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

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DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/22/2019 DAY: Thursday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Cloudy → Wind : calm
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 61° (Fahrenheit)
CONTRACTOR: Richard Peck Construction inc	

On Site at: 7:45 am/pm

COMMENTS: Richard Peck and 3 members on site to work
Set up work zone (area) and set up CAMP
10:00 Start working at N side of the site. They are constructing the berm to provide room for more soil
The same time using an excavator Rich Peck start digging the trench.
The trench is about 15' wide and tolweg is at 7' and 2' deep.
About 40' from soil tracks it was found a fundation. That fundation narrows the trench from 15' to 10'.
13:00 Stopped digging and start laying down the filter fabric

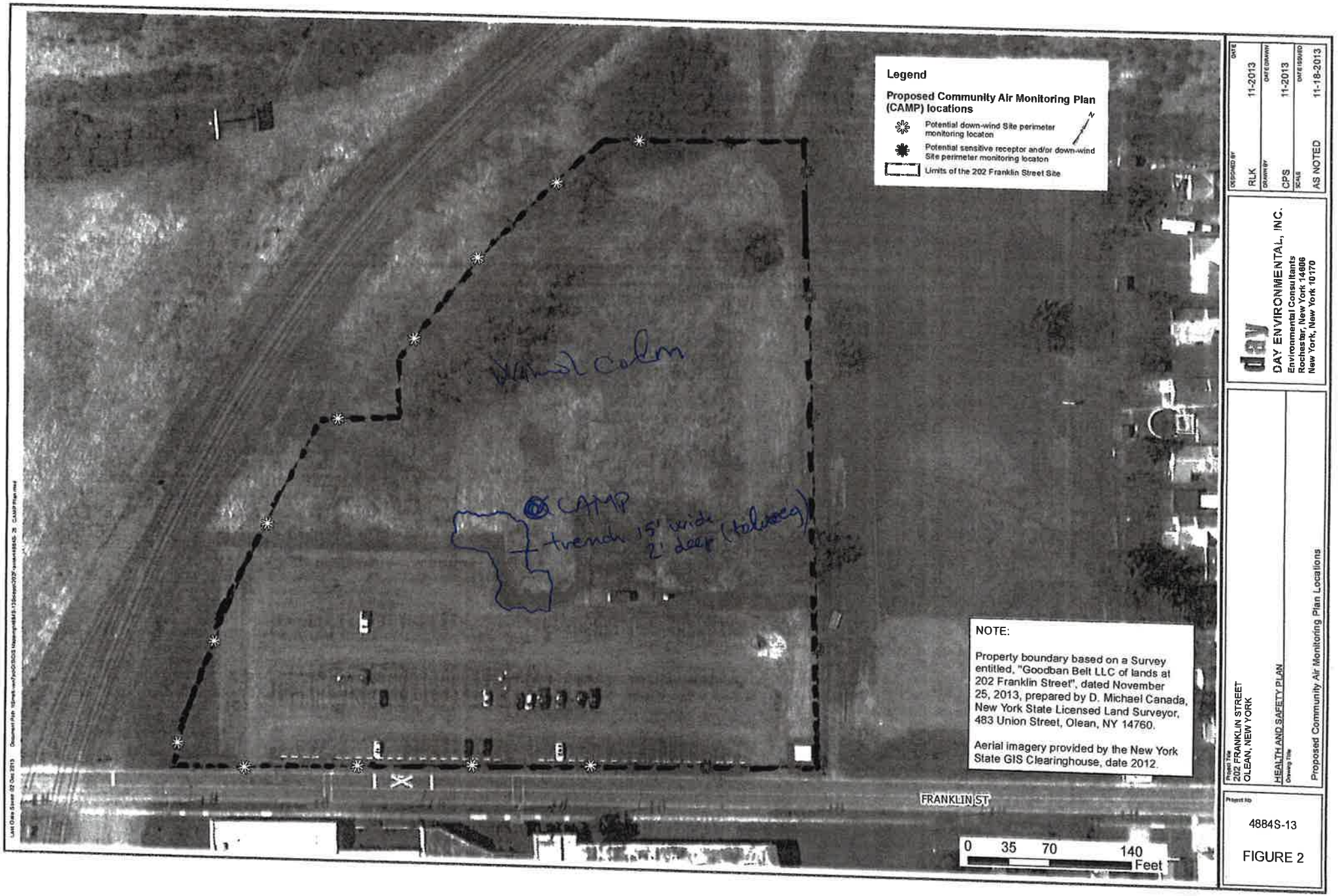
Off Site at: 14 55 am/pm

WORK FORCE AND EQUIPMENT:
1 truck
1 bulldozer
1 bobcat
1 excavator

DAY Representative (print): Catalin Dennia DAY Representative (signed):

Attachments: 1) **Site Plan w/Annotations, Dated** ✓
2) **CAMP Air Monitoring Report** ✓

8/22/2019



DESIGNED BY	RLK
DATE	11-2013
DRAWN BY	CPS
DATE DRAWN	11-2013
SCALE	AS NOTED
DATE ISSUED	11-18-2013

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14606
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

Drawing Title
HEALTH AND SAFETY PLAN
Proposed Community Air Monitoring Plan Locations

Project No
4884S-13

FIGURE 2

day
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 8/22/2019 PAGE: 1 OF 2

JOB #: 4884S-13 Soleposey

SITE: ~~80~~ 202 Franklin St Olean NY

BY: Catalin Denian

ON-SITE: 7:45 OFF-SITE:

WEATHER CONDITIONS: Overcast 61°F PREVAILING WIND DIRECTION: Colm

PERSONNEL ON-SITE: Richard Peck and 3 crew members

NOTES: 1 excavator, 2 trucks, 1 bulldozer } Humidity 100% Set up CAMP near Breathing Zone

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BG	7:55	BG	0.0	0.000
CAMP	8:00	CAMP	0.0	0.000
	8:15		0.0	0.000
	8:30		0.0	0.000
	8:45		0.0	0.000
	9:00		0.0	0.001
	9:15		0.0	0.000
	9:30		0.0	0.000
	9:45		0.0	0.001
	10:00		0.0	0.000
	10:15		0.0	0.000
	10:30		0.0	0.000
	10:45		0.0	0.000
	11:00		0.0	0.000
	11:15		0.0	0.000
	11:30		0.0	0.000
	11:45		0.0	0.000
Lunch	12:00		0.0	0.000
	12:30		0.0	0.000
	12:45		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 8/22/2019 PAGE: 2 OF 2

JOB #: 4884S-13 Solepo

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
	13:00	CAMP	0.0	0.000
	13:15		0.0	0.000
	13:30		0.0	0.000
	13:45		0.0	0.000
Stopped	13:50		0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary

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DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/26/2019 DAY: Monday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: Mostly cloudy
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 64° (Fahrenheit) Feel 62° Wind SE 10 mph
CONTRACTOR: Richard Peck Construction	

On Site at: 11:15 am/pm

COMMENTS: Seen from RPC on site leveling clean fill on top of the berm created on 8/22/2019
One truck is bring
13:15 Video conference (face time) Charles Hampton to show the progress of the work.
13:40 Resume work. RPC Brought top soil for the front of the parking lot. Start spreading a layer a top soil over the clean fill on the west side ~~Top soil will be also on~~
14:15 Start spreading top ~~soil~~ soil parallel with Franklin St.
2 Excavators 2 trucks (top soil) and 4 people on site spreading soil
The soil is camming from 63 South 7th St Allegany NY 14706.
The top soil is spread in 1-2" thickness and is going to be seeded.

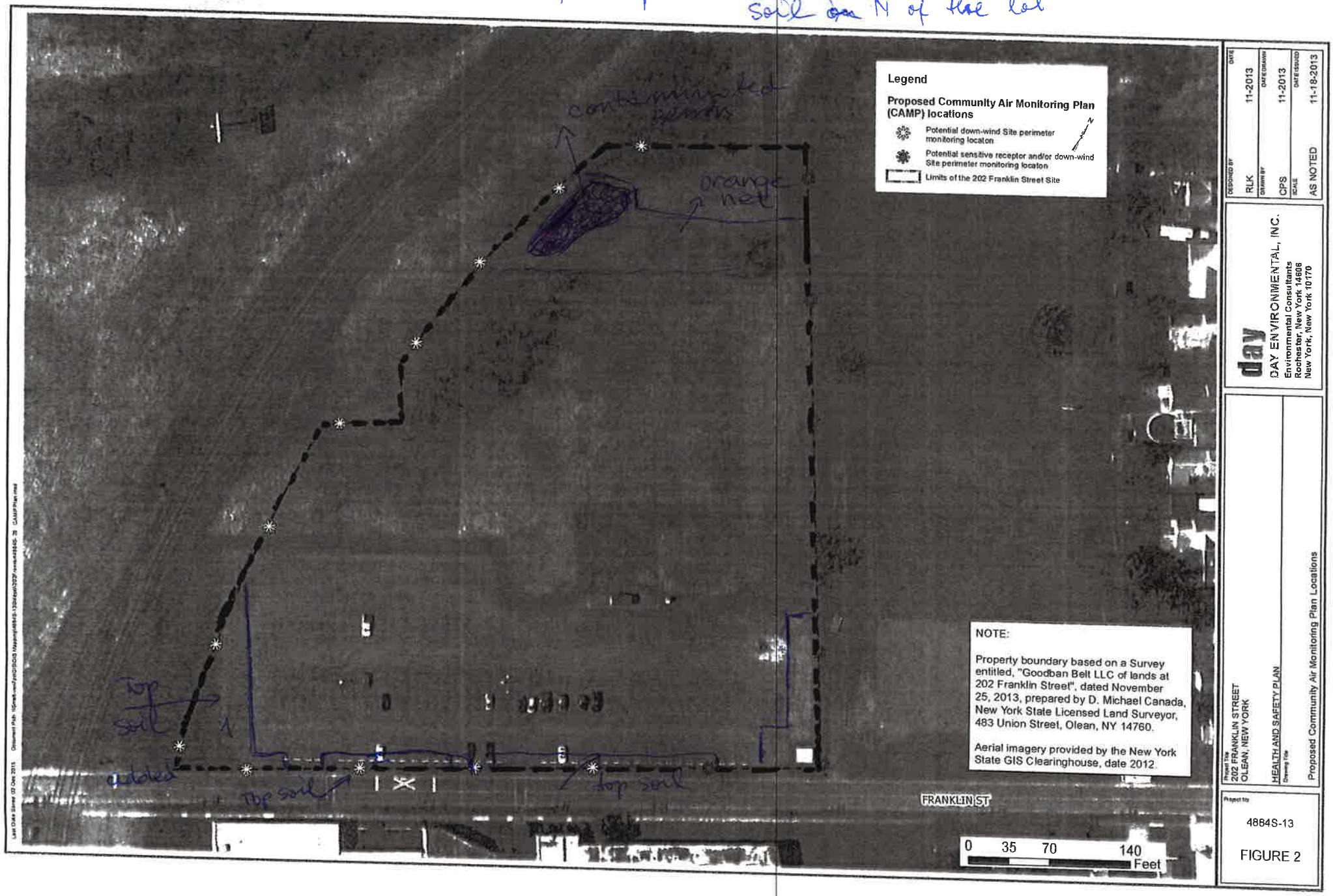
Off Site at: 14:37 am/pm

WORK FORCE AND EQUIPMENT: 2 trucks for top soil + 1 truck for clean fill
1 buldozer + 2 excavators and
6 people (crew)

DAY Representative (print): Catalin Dennion DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** Yes
2) **CAMP Air Monitoring Report** NA

8/26/2019 Site plan for contaminated soil on N of the lot



DAY ENVIRONMENTAL, INC.
SITE OBSERVATION REPORT

NYSDEC BCP Site No. C905038	DATE: 8/28/19 DAY: Wednesday
PROJECT: **Remedial Actions (August 2017 Work Plan)**	WEATHER: AM-Rain, PM-Sunny
LOCATION: **202 Franklin Street, Olean NY**	TEMPERATURE: 68 F (Fahrenheit)
CONTRACTOR: Richard Peck Construction Inc	

On Site at: 11:10 (am)/pm

COMMENTS: RPC was working on the Northesn side of the site, spreading clean fill. Depth sticks were already placed in the ground. The clean fill is spread over demarcation fabric.

Around the trees located on the East side of the site, there was mulch, uniformly spread at an approximate thickness of 12".

The section of the trench between the railway and light poles will be completed next week (approx. 30 ft long)

Off Site at: 13:10 am/pm

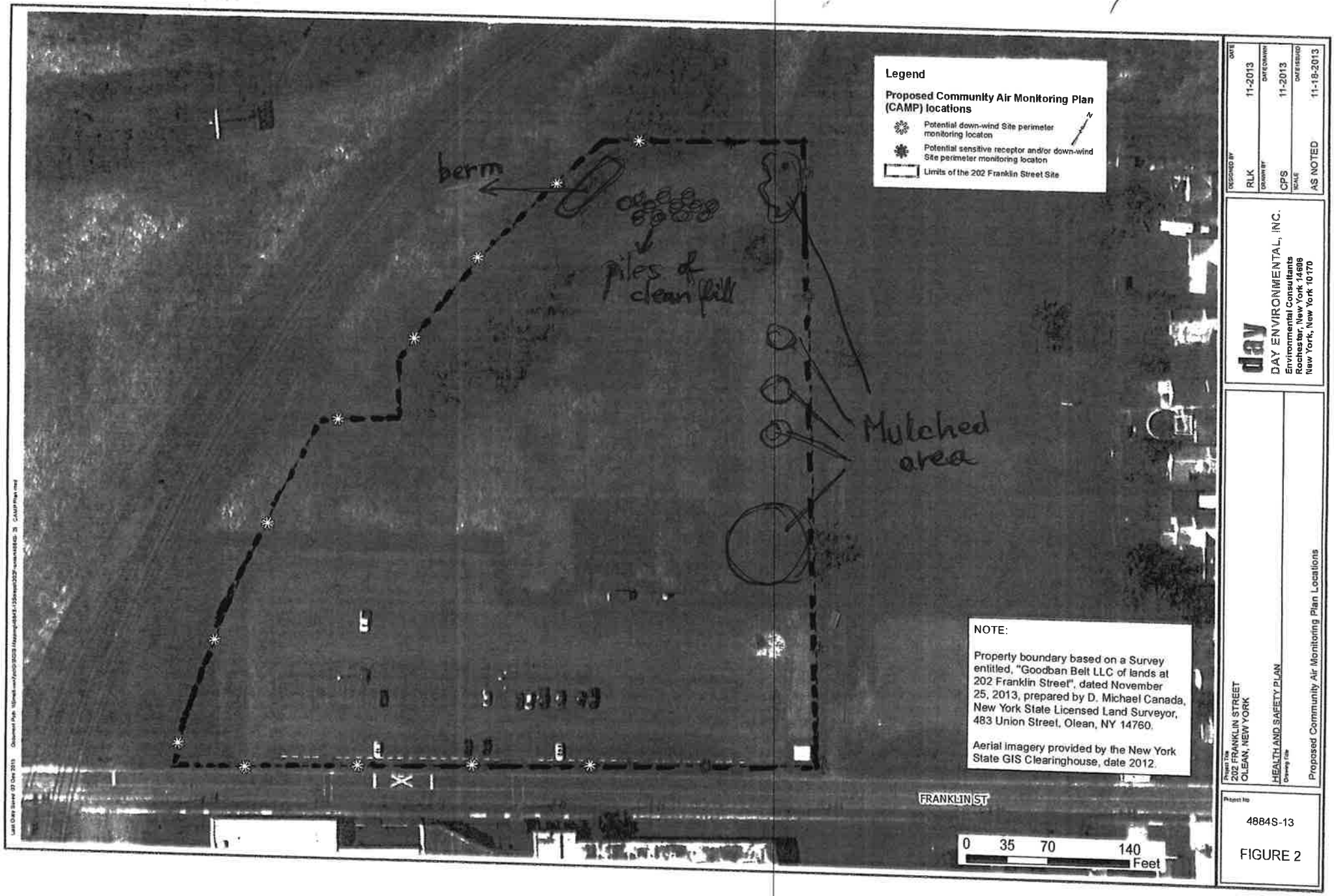
WORK FORCE AND EQUIPMENT: 1 Bulldozer, 1 Bobcat Bulldozer
2 Trucks, 6 people

DAY Representative (print): Catalin Demian DAY Representative (signed): [signature]

Attachments: 1) **Site Plan w/Annotations, Dated** yes
2) **CAMP Air Monitoring Report** _____

8/28/19

clean



DESIGNED BY RLK DATE 11-2013
DRAWN BY CPS DATE/DRAWN 11-2013
SCALE AS NOTED DATE/ISSUED 11-18-2013

day
DAY ENVIRONMENTAL, INC.
Environmental Consultants
Rochester, New York 14608
New York, New York 10170

Project Title
202 FRANKLIN STREET
OLEAN, NEW YORK

HEALTH AND SAFETY PLAN

Drawing title
Proposed Community Air Monitoring Plan Locations

Project No
4884S-13

FIGURE 2

APPENDIX D

PROJECT PHOTO LOG

PHOTOGRAPH LOG - SEPTEMBER 20, 2017 THROUGH JANUARY 9, 2018 AND JUNE 17, 2019 THROUGH OCTOBER 14, 2019

Photo ID	Date	Time	File Name	View Direction	Scene Description
2312	9/20/2017	NC	IMG_2312.JPG	NW	Geophysical anomaly J area - prior to start of removal work
2313	9/20/2017	7:48	IMG_2313.JPG	NW	Marked boundary of geophysical anomaly J - western portion
2314	9/20/2017	NC	IMG_2314.JPG	N	Marked boundary of geophysical anomaly J
2315	9/20/2017	NC	IMG_2315.JPG	NW	Marked boundary of geophysical anomaly J - eastern portion
2316	9/20/2017	8:02	IMG_2316.JPG	NW	CAMP monitoring station and start of topsoil stripping on geophysical anomaly J area
2317	9/20/2017	8:45	IMG_2317.JPG	W	Brush and tree removal from northern edge of geophysical anomaly J area
2318	9/20/2017	NC	IMG_2318.JPG	N	Topsoil stripping on geophysical anomaly J area - eastern portion
2322	9/20/2017	9:16	IMG_2322.JPG	W	Topsoil stripping on geophysical anomaly J area - central portion
2323	9/20/2017	9:36	IMG_2323.JPG	W	Topsoil stripping on geophysical anomaly J area - stockpiling topsoil using bulldozer
2324	9/20/2017	NC	IMG_2324.JPG	N	Mark out location of Removal Area 11 using GPS
2325	9/20/2017	NC	IMG_2325.JPG	NW	Mark out location of Removal Areas 9 and 10 using GPS - areas combined due to proximity and observation of metal waste exposed below topsoil
2326	9/20/2017	9:55	IMG_2326.JPG	NE	Mark out location of Removal Area 8 using GPS
2327	9/20/2017	9:55	IMG_2327.JPG	NW	Mark out location of Removal Area 6 using GPS, topsoil stripping on geophysical anomaly J area - western portion
2328	9/20/2017	10:26	IMG_2328.JPG	E	Topsoil stripping on geophysical anomaly J area completed
2329	9/20/2017	NC	IMG_2329.JPG	NE	Mark out location of Removal Areas 1 and 2 using GPS
2330	9/20/2017	NC	IMG_2330.JPG	N	Mark out location of Removal Areas 1,2,3,4 and 5 using GPS
2331	9/20/2017	10:28	IMG_2331.JPG	NE	Mark out location of Removal Area 2 using GPS
2332	9/20/2017	10:29	IMG_2332.JPG	SW	Mark out location of Removal Area 1 using GPS
2333	9/20/2017	NC	IMG_2333.JPG	N	Mark out location of Removal Areas 3,4 and 5 using GPS
2334	9/20/2017	NC	IMG_2334.JPG	N	Mark out location of Removal Areas 4,5 and 6 using GPS
2335	9/20/2017	NC	IMG_2335.JPG	NE	Mark out location of Removal Areas 7 and 8 using GPS
2336	9/20/2017	NC	IMG_2336.JPG	SW	Mark out location of Removal Area 6 using GPS
2337	9/20/2017	NC	IMG_2337.JPG	NE	Mark out location of Removal Areas 9 and 10 using GPS - areas combined due to proximity and observation of metal waste exposed below topsoil
2339	9/20/2017	10:31	IMG_2339.JPG	NW	Mark out location of Removal Area 11 using GPS
2340	9/20/2017	10:38	IMG_2340.JPG	W	Start of excavation - Removal Area 1, north portion - excavator transfers waste material to loader
2341	9/20/2017	10:44	IMG_2341.JPG	S	Removal Area 1, north portion - soil type change at ~1 ft. BGS
2342	9/20/2017	10:55	IMG_2342.JPG	NW	Removal Area 1, north portion - some C&D material encountered (e.g., brick)
2343	9/20/2017	10:56	IMG_2343.JPG	W	Start of excavation - Removal Area 2, north portion
2344	9/20/2017	10:56	IMG_2344.JPG	W	Start of excavation - Removal Area 2, north portion
2345	9/20/2017	11:04	IMG_2345.JPG	W	Removal Area 2 - soil type change at ~0.8 ft. BGS
2346	9/20/2017	11:09	IMG_2346.JPG	SW	Removal Area 2, some C&D material encountered (e.g., brick) and metal waste
2347	9/20/2017	11:12	IMG_2347.JPG	N	Topsoil stockpile and excavation of Removal Area 2
2348	9/20/2017	11:12	IMG_2348.JPG	NW	Topsoil stockpile and excavation of Removal Area 2
2349	9/20/2017	11:12	IMG_2349.JPG	NW	Removal Area 2 - soil type change at ~0.8 ft. BGS
2350	9/20/2017	11:16	IMG_2350.JPG	NW	Removal Area 2, some C&D material encountered (e.g., brick) and metal waste
2351	9/20/2017	11:36	IMG_2351.JPG	NW	Removal Area 2, sheet metal waste in bucket
2352	9/20/2017	11:42	IMG_2352.JPG	N/A	Removal Area 2, ash material (white color)
2353	9/20/2017	11:48	IMG_2353.JPG	N/A	Removal Area 2, metal machine parts, wire, etc.
2354	9/20/2017	12:24	IMG_2354.JPG	W	Bulldozer used by RPC during site work
2355	9/20/2017	12:48	IMG_2355.JPG	S	Removal Area 2, Metal 'bin' encountered between ~2 ft. and 4 ft. BGS
2356	9/20/2017	12:50	IMG_2356.JPG	NW	Removal Area 2, Metal 'bin' encountered between ~2 ft. and 4 ft. BGS
2357	9/20/2017	12:59	IMG_2357.JPG	SE	Removal Area 2, soil below Metal 'bin' encountered between ~2 ft. and 4 ft. BGS
2358	9/20/2017	13:02	IMG_2358.JPG	W	Removal Area 2, soil below Metal 'bin' encountered between ~2 ft. and 4 ft. BGS
2359	9/20/2017	13:03	IMG_2359.JPG	NW	Removal Area 2, soil below Metal 'bin' encountered between ~2 ft. and 4 ft. BGS
2360	9/20/2017	13:21	IMG_2360.JPG	S	Removal Area 1, northern portion - extending excavation towards S
2361	9/20/2017	13:21	IMG_2361.JPG	N/A	Close-up of cinder/slag material removed from Removal Area 1
2362	9/20/2017	13:26	IMG_2362.JPG	N/A	Metal waste and C&D material encountered in Removal Area 1
2363	9/20/2017	13:30	IMG_2363.JPG	SE	Ash layer removed from Removal Area 1 (Gray/white color)
2364	9/20/2017	13:50	IMG_2364.JPG	S	Removal Area 1, southern portion
2365	9/20/2017	14:24	IMG_2365.JPG	N	Removal Area 1, southern portion - advancing excavation to depth ~4' BGS to chase metal waste
2366	9/20/2017	14:39	IMG_2366.JPG	N	Removal Area 1, southern portion - ~4-inch ID steel pipe encountered ~4' BGS - trending SE-NW

PHOTOGRAPH LOG - SEPTEMBER 20, 2017 THROUGH JANUARY 9, 2018 AND JUNE 17, 2019 THROUGH OCTOBER 14, 2019

Photo ID	Date	Time	File Name	View Direction	Scene Description
2367	9/20/2017	14:40	IMG_2367.JPG	NE	Removal Area 1, southern portion - ~4-inch ID steel pipe encountered ~4' BGS - trending SE-NW
2368	9/20/2017	14:40	IMG_2368.JPG	SE	Removal Area 1, southern portion - advancing excavation to depth ~4' BGS to chase metal waste
2369	9/20/2017	14:41	IMG_2369.JPG	SW	Removal Areas 1 and 2 extent of excavation/removal completed on 9/20/17
2370	9/20/2017	NC	IMG_2370.JPG	SE	Removal Areas 1 and 2 extent of excavation/removal completed on 9/20/17
2371	9/21/2017	7:42	IMG_2371.JPG	NE	Start excavation of Removal Area 6
2372	9/21/2017	7:49	IMG_2372.JPG	E	Removal Area 6 - soil type change and encounter metal waste layer
2373	9/21/2017	8:04	IMG_2373.JPG	SE	Removal Area 6 - metal waste (e.g., wire)
2376	9/21/2017	8:06	IMG_2376.JPG	NE	Removal Area 6 - metal waste (e.g., wire and sheet metal scraps)
2377	9/21/2017	8:09	IMG_2377.JPG	NW	Removal Area 6 - metal waste layer
2378	9/21/2017	8:23	IMG_2378.JPG	SW	Removal Area 6 - metal waste layer
2379	9/21/2017	8:25	IMG_2379.JPG	S	Removal Area 6 - metal waste (e.g., wire and sheet metal scraps)
2380	9/21/2017	8:37	IMG_2380.JPG	NW	Extending Removal Area 6 to north - transfer overburden soil to Removal Area 2 excavation
2381	9/21/2017	8:59	IMG_2381.JPG	N	Removal Area 6 - metal waste (e.g., sheet metal scraps)
2382	9/21/2017	9:05	IMG_2382.JPG	E	Removal Area 6 - metal waste layer
2383	9/21/2017	9:38	IMG_2383.JPG	E	Removal Area 6 - excavator transfer metal waste to loader
2384	9/21/2017	9:47	IMG_2384.JPG	NE	Extending Removal Area 6 to east - transfer overburden soil to western portion of Removal Area 6 excavation
2385	9/21/2017	9:47	IMG_2385.JPG	NE	Extending Removal Area 6 to east - transfer overburden soil to western portion of Removal Area 6 excavation
2386	9/21/2017	10:18	IMG_2386.JPG	SE	Removal Area 5 - excavating metal waste layer
2387	9/21/2017	10:19	IMG_2387.JPG	SE	Removal Area 5 - metal waste layer
2388	9/21/2017	10:27	IMG_2388.JPG	SE	Removal Area 5 - metal waste layer
2389	9/21/2017	10:38	IMG_2389.JPG	NE	Removal Area 5 - extending toward N and E to chase metal waste layer (Removal Area 6 in background)
2390	9/21/2017	10:50	IMG_2390.JPG	NW	Removal Area 5 - extent of excavation toward W; metal waste layer removed
2391	9/21/2017	11:06	IMG_2391.JPG	NE	Removal Area 5 - extending toward N and E to chase metal waste layer (merge with Removal Area 6 in background)
2392	9/21/2017	11:07	IMG_2392.JPG	SW	Removal Area 5, extent of excavation to NE (Removal Area 6 in foreground); metal waste layer removed
2393	9/21/2017	11:17	IMG_2393.JPG	N	Removal Area 5, extent of excavation to NE (Removal Area 6 in background); metal waste layer removed
2394	9/21/2017	11:21	IMG_2394.JPG	NW	Removal Area 5, extent of excavation to NW (Removal Area 6 in background); metal waste layer removed
2395	9/21/2017	12:04	IMG_2395.JPG	SW	Start excavation of Removal Area 4 (Removal Area 5 in foreground)
2396	9/21/2017	12:11	IMG_2396.JPG	SW	Removal Area 4, excavation of metal waste layer (Removal Area 5 in foreground)
2397	9/21/2017	12:16	IMG_2397.JPG	SW	Removal Area 4, excavation of metal waste layer (Removal Areas 1 and 2 in background)
2398	9/21/2017	12:29	IMG_2398.JPG	SW	Removal Area 4, excavation of metal waste layer (Removal Areas 1 and 2 in background)
2399	9/21/2017	12:42	IMG_2399.JPG	SW	Removal Area 4, extended in Removal Area 3 (towards the SW) to chase metal waste layer
2401	9/21/2017	12:50	IMG_2401.JPG	SW	Removal Areas 3 and 4
2402	9/21/2017	13:33	IMG_2402.JPG	N	Removal Area 5, extended to E to chase metal waste layer
2403	9/21/2017	13:58	IMG_2403.JPG	SW	Removal Area 7, extended to N, into Removal Area 5 (right side)
2404	9/21/2017	14:05	IMG_2404.JPG	NE	Removal Area 7 - test pit excavated to confirm that metal waste layer does not extended deeper and extending to Removal Area 8 to chase metal waste layer
2405	9/21/2017	14:07	IMG_2405.JPG	E	Excavating metal waste layer between Removal Area 7 and Removal Area 8
2406	9/21/2017	14:15	IMG_2406.JPG	N	Removal Area 8 - Metal waste layer (Removal Areas 5/6 background to left)
2407	9/21/2017	14:15	IMG_2407.JPG	N	Removal Area 8 - Metal waste layer
2408	9/21/2017	14:16	IMG_2408.JPG	N	Removal Area 8 - Metal waste layer
2409	9/21/2017	14:33	IMG_2409.JPG	E	Removal Area 8 - extending to NW to chase metal waste
2410	9/21/2017	14:40	IMG_2410.JPG	NE	Removal Area 8 - extending to NW - into Removal Area 5 (left side) to chase metal waste
2411	9/21/2017	15:40	IMG_2411.JPG	SW	Extent of excavation 9/21/17
2412	9/21/2017	16:07	IMG_2412.JPG	S	Waste stockpile at end of work day
2413	9/22/2017	7:23	IMG_2413.JPG	N	Start of excavation, Removal Area 11
2414	9/22/2017	7:29	IMG_2414.JPG	NW	Removal Area 11, encounter metal waste
2415	9/22/2017	7:39	IMG_2415.JPG	W	Extend Removal Area 11 to west to chase metal waste layer
2416	9/22/2017	7:45	IMG_2416.JPG	NW	Extend Removal Area 11 to west to chase metal waste layer
2417	9/22/2017	7:52	IMG_2417.JPG	W	Extend Removal Area 11 to north to chase metal waste layer
2418	9/22/2017	8:05	IMG_2418.JPG	W	Extend Removal Area 11 to SW to chase metal waste layer, into Removal Area 9
2419	9/22/2017	8:26	IMG_2419.JPG	SW	Removal Area 9, metal waste and C&D layer
2420	9/22/2017	8:41	IMG_2420.JPG	NW	Removal Areas 9 and 11, metal waste and C&D layer

PHOTOGRAPH LOG - SEPTEMBER 20, 2017 THROUGH JANUARY 9, 2018 AND JUNE 17, 2019 THROUGH OCTOBER 14, 2019

Photo ID	Date	Time	File Name	View Direction	Scene Description
2421	9/22/2017	8:41	IMG_2421.JPG	SW	Removal Area 9, metal waste and C&D layer
2422	9/22/2017	8:46	IMG_2422.JPG	W	Removal Area 9, metal waste and C&D layer
2423	9/22/2017	8:58	IMG_2423.JPG	W	Removal Area 9, metal waste and C&D layer
2424	9/22/2017	9:10	IMG_2424.JPG	W	Removal Area 9, metal waste and C&D layer; brick/concrete fill encountered to NW
2425	9/22/2017	9:19	IMG_2425.JPG	W	Removal Area 9, metal waste and C&D layer
2426	9/22/2017	9:24	IMG_2426.JPG	SW	Extending Removal Area 9 to W to chase metal waste; encounter layer of glass (white)
2427	9/22/2017	9:38	IMG_2427.JPG	SW	Removal Area 10, metal waste layer trending to surface, towards SE
2428	9/22/2017	9:39	IMG_2428.JPG	S	Removal Area 10, metal waste layer trending to surface, towards SE
2429	9/22/2017	10:00	IMG_2429.JPG	SW	Extending Removal Area 9 to SW to chase metal waste; layer of glass (white)
2430	9/22/2017	10:31	IMG_2430.JPG	N	Extending Removal Area 9 to W to chase metal waste; layer of glass (white), cinders/apparent rail bed and RR tie to (left side)
2431	9/22/2017	10:50	IMG_2431.JPG	NW	Extending Removal Area 9 to W to chase metal waste; layer of glass (white), cinders/apparent rail bed and RR tie to (left side)
2432	9/22/2017	10:50	IMG_2432.JPG	N/A	Cinders/apparent rail bed and glass
2433	9/22/2017	11:40	IMG_2433.JPG	W	Removal Area 10, metal waste layer trending to surface, towards SE
2434	9/22/2017	11:40	IMG_2434.JPG	W	Western extent of Removal Area 9 to W (extended to chase metal waste)
2435	9/22/2017	11:48	IMG_2435.JPG	W	Western extent of Removal Area 9 to W (extended to chase metal waste)
2436	9/22/2017	11:51	IMG_2436.JPG	SW	Extending Removal Area 9 to SW to chase metal waste (Removal Areas 5/8 in background)
2437	9/22/2017	11:57	IMG_2437.JPG	SW	Extending Removal Area 9 to SW into Removal Area 5 to chase metal waste
2438	9/22/2017	12:30	IMG_2438.JPG	W	Competing removals for Areas 9 and 10
2439	9/22/2017	12:37	IMG_2439.JPG	SW	Competing removals for Areas 9 and 10 - last of waste material to be loaded for stockpile
2441	9/22/2017	13:05	IMG_2441.JPG	N	Completed removal work; geophysical anomaly J area
2442	9/22/2017	13:05	IMG_2442.JPG	NE	Large metal waste (metal 'bin' apparent rail, sheet metal), to be sent off as scrap
2443	9/22/2017	13:06	IMG_2443.JPG	N	Completed removal work; geophysical anomaly J area (pano)
2444	9/22/2017	13:06	IMG_2444.JPG	N	Completed removal work; geophysical anomaly J area (pano)
2445	9/22/2017	13:07	IMG_2445.JPG	NW	Completed removal work; geophysical anomaly J area (pano)
2446	9/22/2017	13:08	IMG_2446.JPG	SW	Completed removal work; geophysical anomaly J area (pano)
2447	9/22/2017	13:09	IMG_2447.JPG	E	Completed removal work; geophysical anomaly J area (pano)
2448	9/22/2017	13:55	IMG_2448.JPG	N	Geophysical anomaly J area after grading to knock down sidewalls
2449	9/22/2017	13:56	IMG_2449.JPG	W	Tree grubbing, clearing and chipping operations (completed by RPC)
2450	9/22/2017	14:45	IMG_2450.JPG	S	Waste stockpile at end of work day
2451	9/22/2017	14:45	IMG_2451.JPG	NE	Waste stockpile at end of work day
2452	9/22/2017	14:45	IMG_2452.JPG	NW	Waste stockpile at end of work day
2453	9/22/2017	14:46	IMG_2453.JPG	NW	Site at end of work week
2454	9/25/2017	7:47	IMG_2454.JPG	SW	UST Area, 10 Mil poly Sheeting (2 layers) for soil stockpile - prior to start of excavation
2455	9/25/2017	8:07	IMG_2455.JPG	NE	Soil/fill excavated from above UST, screened for volatiles each bucket and stockpiled on poly sheeting
2456	9/25/2017	19:44	IMG_2456.JPG	SE	UST top uncovered, apparent vent pipe encountered on S end of tank; apparent manway at mid section
2457	9/25/2017	10:14	IMG_2457.JPG	E	UST top uncovered, apparent vent pipe encountered on S end of tank; piping encountered in foundation wall (not attached to UST)
2458	9/25/2017	10:14	IMG_2458.JPG	NE	UST top uncovered, apparent vent pipe encountered on S end of tank; piping encountered in foundation wall (not attached to UST)
2459	9/25/2017	10:48	IMG_2459.JPG	SE	UST top uncovered, 90-degree elbow fitting at flange on N end of UST
2460	9/25/2017	10:48	IMG_2460.JPG	NE	UST excavation work completed for day
2461	9/25/2017	19:44	IMG_2461.JPG	NE	UST excavation work completed for day; screened soil from above UST on ploy sheeting
2462	9/25/2017	12:04	IMG_2462.JPG	N	Gravel pit at 4581 Lower Birch Run Rd - Alleghany, NY (fill source for project)
2463	9/25/2017	12:10	IMG_2463.JPG	SW	Southern cut wall of gravel pit at 4581 Lower Birch Run Rd - Alleghany, NY (fill source for project)
2464	9/25/2017	12:10	IMG_2464.JPG	N	Soil/gravel stockpiled at gravel pit at 4581 Lower Birch Run Rd - Alleghany, NY (fill source for project) - soil sample 3 collected from pile in foreground/left
2465	9/25/2017	12:11	IMG_2465.JPG	E	Soil/gravel stockpiled at gravel pit at 4581 Lower Birch Run Rd - Alleghany, NY (fill source for project) - soil sample 2 collected from pile in foreground/center
2466	9/25/2017	12:11	IMG_2466.JPG	W	Soil/gravel stockpiled at gravel pit at 4581 Lower Birch Run Rd - Alleghany, NY (fill source for project) - soil sample 1 collected from pile to left of soil screen
2467	9/25/2017	13:09	IMG_2467.JPG	NW	UST area - work completed for day
2468	9/26/2017	10:27	IMG_2468.JPG	E	Vac truck onsite, prep for UST evacuation and cleaning; foundation marked at UST centerline (CL) and at ~5 ft. intervals along the wall (white paint)
2469	9/26/2017	10:56	IMG_2469.JPG	NE	SUN washes UST interior using pressure washer and potable water (tote in box truck); Vacs liquid from UST (pipe inserted in N end)
2470	9/26/2017	13:02	IMG_2470.JPG	S	Cleaning/inerting (w/Nitrogen gas) complete; excavation of western sidewall starts; excavated soil screened (each bucket) and placed on stockpile
2471	9/26/2017	13:11	IMG_2471.JPG	S	West side of UST during excavation
2472	9/26/2017	13:52	IMG_2472.JPG	SE	UST sidewall (pano)

Photo ID	Date	Time	File Name	View Direction	Scene Description
2473	9/26/2017	14:09	IMG_2473.JPG	NE	rocking UST using excavator to free it from surrounding soil
2474	9/26/2017	21:45	IMG_2474.JPG	W	UST freed from soil, prior to removal (pano)
2475	9/26/2017	21:45	IMG_2475.JPG	S	team considering options
2476	9/26/2017	14:14	IMG_2476.JPG	W	N end UST, lifted w/ excavator, prior to removal
2477	9/26/2017	21:45	IMG_2477.JPG	SW	N end UST, lifted w/ excavator, prior to removal
2478	9/26/2017	21:45	IMG_2478.JPG	N	UST dragged out of excavation w/ chain by excavator
2479	9/26/2017	21:45	IMG_2479.JPG	N	UST dragged out of excavation w/ chain by excavator
2480	9/26/2017	21:45	IMG_2480.JPG	NE	UST dragged out of excavation w/ chain by excavator
2481	9/26/2017	21:45	IMG_2481.JPG	E	UST dragged out of excavation w/ chain by excavator, bottom of UST in view
2482	9/26/2017	14:40	IMG_2482.JPG	SE	UST bottom
2483	9/26/2017	21:45	IMG_2483.JPG	E	Close-up of ports in UST bottom
2484	9/26/2017	21:45	IMG_2484.JPG	E	Close-up of UST bottom- south end
2485	9/26/2017	21:45	IMG_2485.JPG	E	UST bottom - north end
2486	9/26/2017	21:45	IMG_2486.JPG	W	UST Top (T) (Pano)
2487	9/26/2017	14:43	IMG_2487.JPG	W	UST Top (T) -south end
2489	9/26/2017	14:44	IMG_2489.JPG	N	UST end wall - south end (S) - discharge pipe elbow at ~7:00 on face
2490	9/26/2017	21:45	IMG_2490.JPG	E	UST bottom (Pano)
2491	9/26/2017	14:52	IMG_2491.JPG	NW	UST top - north end; hole made by excavator bucket (center of photo)
2492	9/26/2017	21:45	IMG_2492.JPG	S	UST end wall - north end (N)
2493	9/26/2017	21:45	IMG_2493.JPG	NE	Sun cuts UST for inspection and liquid removal
2494	9/26/2017	21:45	IMG_2494.JPG	N	UST excavation - Tank bedding material (Black granular unit) along UST invert
2495	9/26/2017	21:45	IMG_2495.JPG	N	UST excavation - Tank bedding material (Black granular unit) along UST invert
2496	9/26/2017	21:45	IMG_2496.JPG	S	UST excavation - Tank bedding material (Black granular unit) along UST invert
2497	9/26/2017	21:45	IMG_2497.JPG	SE	Vac truck off-site, UST area secure for night, soil stockpile covered w/ poly sheeting
2498	9/26/2017	16:43	IMG_2498.JPG	NW	UST on asphalt pavement, stockpile covered w/ poly sheeting
2499	9/27/2017	NC	IMG_2499.JPG	E	Foreground - area for UST area impacted soil waste pile; background metal waste soil pile
2500	9/27/2017	9:27	IMG_2500.JPG	E	Liquid waste from UST - 3 55-gal drums on/covered w/ poly sheeting and asphalt; adjacent to soil pile
2501	9/27/2017	9:27	IMG_2501.JPG	N/A	Liquid waste from UST - drum label
2502	9/27/2017	9:43	IMG_2502.JPG	N/A	UST interior from cut-hole
2503	9/27/2017	9:43	IMG_2503.JPG	N/A	UST interior from cut-hole
2504	9/27/2017	9:59	IMG_2504.JPG	S	UST excavation prior to soil removal work
2505	9/27/2017	10:15	IMG_2505.JPG	SW	Removal of tank bedding material (N end)
2506	9/27/2017	NC	IMG_2506.JPG	NE	Sample collection - solvent impacted soil - for rush testing PCB/TPH - south end UST excavation
2507	9/27/2017	NC	IMG_2507.JPG	N	Soil loaded for transport to waste pile
2508	9/27/2017	14:44	IMG_2508.JPG	N	Removal of tank bedding material for disposal
2510	9/27/2017	15:01	IMG_2510.JPG	N	Removal of tank bedding material for disposal
2512	9/27/2017	NC	IMG_2512.JPG	E	Removal of tank bedding material for disposal - work completed for day
2513	9/27/2017	15:28	IMG_2513.JPG	E	Tank bedding material stockpile (for disposal)
2514	9/27/2017	15:34	IMG_2514.JPG	SE	Tank bedding material stockpile (for disposal) - covered for night
2515	9/27/2017	15:45	IMG_2515.JPG	S	UST area secured for night
2516	9/28/2017	NC	IMG_2516.JPG	S	Removal of tank bedding material for disposal - work completed
2517	9/28/2017	8:06	IMG_2517.JPG	S	Removal of tank bedding material for disposal - work completed W sidewall slumps
2518	9/28/2017	8:37	IMG_2518.JPG	NE	Confirmatory sample - UST CS-1 soil sample location (bottom center - gray soil)
2519	9/28/2017	8:37	IMG_2519.JPG	N	Confirmatory sample - UST CS-2 soil sample location (bottom center - blue glove)
2520	9/28/2017	8:38	IMG_2520.JPG	NW	Confirmatory sample - UST CS-3 soil sample location (bottom center -apparent burrow)
2521	9/28/2017	8:38	IMG_2521.JPG	S	Confirmatory samples - UST CS-4, UST CS-5 and UST CS-6 locations; shown foreground to background
2522	9/28/2017	8:39	IMG_2522.JPG	SE	Close-up of solvent impacted soils; southeast end wall of UST excavation
2523	9/28/2017	8:39	IMG_2523.JPG	S	Solvent impacted soils; south end wall of UST excavation
2524	9/28/2017	9:10	IMG_2524.JPG	N	Placement of demarcation fabric (orange mesh) over soils - central and northern portions of USR excavation
2525	9/28/2017	9:16	IMG_2525.JPG	S	Placement of demarcation fabric (orange mesh) over soils - central and northern portions of USR excavation
2526	9/28/2017	9:46	IMG_2526.JPG	SW	Begin excavation of soils to south of UST excavation; placing overburden material in UST excavation, over demarcation layer

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2527	9/28/2017	10:06	IMG_2527.JPG	SE	Excavation of soils to south of UST excavation; placing overburden material in UST excavation, over demarcation layer
2528	9/28/2017	10:06	IMG_2528.JPG	S	Excavation of soils to south of UST excavation; placing overburden material in UST excavation, over demarcation layer
2530	9/28/2017	10:37	IMG_2530.JPG	SE	Encounter apparent discharge pipe (central left of photo - to right of concrete wall)
2531	9/28/2017	10:37	IMG_2531.JPG	S	Partial backfill of UST excavation with soils from south
2532	9/28/2017	10:38	IMG_2532.JPG	NE	Close-up of apparent discharge pipe
2533	9/28/2017	10:40	IMG_2533.JPG	NE	Solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2534	9/28/2017	11:04	IMG_2534.JPG	SE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2535	9/28/2017	11:17	IMG_2535.JPG	NE	Perched water (from within foundation walls) flows from around discharge pipe, when disturbed by excavator
2537	9/28/2017	11:18	IMG_2537.JPG	NE	Perched water (from within foundation walls) flows from around discharge pipe, when disturbed by excavator
2538	9/28/2017	11:46	IMG_2538.JPG	SE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2539	9/28/2017	12:18	IMG_2539.JPG	N	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2540	9/28/2017	13:13	IMG_2540.JPG	NE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2541	9/28/2017	13:13	IMG_2541.JPG	NE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2542	9/28/2017	13:14	IMG_2542.JPG	E	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2543	9/28/2017	13:33	IMG_2543.JPG	SE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2544	9/28/2017	14:42	IMG_2544.JPG	SE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2545	9/28/2017	14:43	IMG_2545.JPG	NE	Removal of solvent impacted soils (gray/black color) below and in vicinity of SW corner of concrete foundation wall
2546	9/28/2017	14:43	IMG_2546.JPG	N	Backfill of UST excavation w/ stockpiled soils to make room for continued excavation to E along foundation wall
2547	9/28/2017	15:06	IMG_2547.JPG	E	Excavation of overburden soils, above impacted area
2548	9/28/2017	15:10	IMG_2548.JPG	NE	Excavation of overburden soils, above impacted area
2549	9/28/2017	15:13	IMG_2549.JPG	NE	Excavation of overburden soils, above impacted area
2550	9/28/2017	NC	IMG_2550.JPG	SE	Excavation of solvent impacted soils (gray/black) along S end of foundation wall
2551	9/28/2017	15:54	IMG_2551.JPG	E	Completion of excavations - view of soils prior to backfill
2552	9/28/2017	15:54	IMG_2552.JPG	SE	Completion of excavations - view of soils prior to backfill
2553	9/28/2017	15:54	IMG_2553.JPG	S	Completion of excavations - view of soils prior to backfill
2554	9/28/2017	15:55	IMG_2554.JPG	SE	Completion of excavations - view of soils prior to backfill
2555	9/28/2017	15:55	IMG_2555.JPG	SE	Completion of excavations - view of soils prior to backfill
2556	9/28/2017	15:56	IMG_2556.JPG	S	Completion of excavations - view of soils prior to backfill (Pano)
2557	9/28/2017	16:03	IMG_2557.JPG	SE	Placement of demarcation fabric (orange mesh) over soils - impacted soil removal area - furthest extent of excavation
2558	9/28/2017	16:03	IMG_2558.JPG	E	Placement of demarcation fabric (orange mesh) over soils - impacted soil removal area - furthest extent of excavation
2559	9/28/2017	16:18	IMG_2559.JPG	NE	Placement of demarcation fabric (orange mesh) over backfill - impacted soil removal area - top of impacted zone
2560	9/28/2017	16:18	IMG_2560.JPG	SE	Placement of demarcation fabric (orange mesh) over backfill - impacted soil removal area - top of impacted zone
2562	9/28/2017	16:42	IMG_2562.JPG	W	Secure UST area for night and cover soil stockpile
2563	9/28/2017	16:43	IMG_2563.JPG	E	Secure UST area for night and cover soil stockpile
2565	9/28/2017	16:45	IMG_2565.JPG	E	UST area impacted soils waste pile covered with 2 layers 10 mil poly
2566	9/28/2017	16:45	IMG_2566.JPG	N	UST area impacted soils waste pile covered with 2 layers 10 mil poly (left) and metal waste pile (right)
2567	9/29/2017	9:05	IMG_2567.JPG	NE	Backfill of UST excavation and impacted area excavation w/ stockpiled soils
2569	9/29/2017	10:15	IMG_2569.JPG	E	UST area impacted soils waste pile - uncovered for waste profile samples
2570	9/29/2017	10:25	IMG_2570.JPG	NE	Waste stockpiles covered to await profile
2571	9/29/2017	11:08	IMG_2571.JPG	NE	Waste stockpiles covered to await profile
2572	9/29/2017	11:20	IMG_2572.JPG	N	Backfill of UST excavation and impacted area excavation w/ import soils from approved source
2604	10/23/2017	8:19	IMG_2604.JPG	NW	Sheep-foot vibratory compaction roller used by RPC to compact area to north of employee parking lot
2605	10/23/2017	8:20	IMG_2605.JPG	N	Drum vibratory compaction roller used by RPC to compact area to north of employee parking lot
2606	10/23/2017	8:51	IMG_2606.JPG	W	Metal waste excavation area subsequent to fill placement
2607	10/23/2017	8:55	IMG_2607.JPG	SE	Compaction work adjacent to north of the employee parking lot
2608	10/23/2017	8:56	IMG_2608.JPG	NE	Compaction work adjacent to north of the employee parking lot
2609	10/23/2017	12:31	IMG_2609.JPG	SW	Compaction work adjacent to north of the employee parking lot
2610	10/23/2017	12:32	IMG_2610.JPG	S	Result of compaction effort - northwestern portion of Site
2611	10/23/2017	NC	IMG_2611.JPG	SW	Result of compaction effort - western portion of Site
2631	11/2/2017	8:16	IMG_2631.JPG	NE	Placement of demarcation layer (landscaping fabric) starting at NW edge of employee parking lot
2632	11/2/2017	8:30	IMG_2632.JPG	S	Import cover soil off-loaded from dump truck onto demarcation layer

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2633	11/2/2017	8:32	IMG_2633.JPG	E	Import cover soil off-loaded from dump truck onto demarcation layer
2634	11/2/2017	8:33	IMG_2634.JPG	NW	Import cover soil off-loaded from dump truck onto demarcation layer
2635	11/3/2017	6:17	IMG_2635.JPG	N	Area where surface compaction was completed
2636	11/2/2017	10:00	IMG_2636.JPG	E	Import cover soil spread over demarcation layer; bulldozer back-dragging in prep for cover placement
2637	11/2/2017	NC	IMG_2637.JPG	NE	View of standing water on areas located north of employee parking lot, following days of precipitation
2638	11/2/2017	10:04	IMG_2638.JPG	NW	View of standing water on areas located north of employee parking lot, following days of precipitation
2640	11/2/2017	NC	IMG_2640.JPG	SW	View of standing water on areas located north of employee parking lot, following days of precipitation
2641	11/2/2017	NC	IMG_2641.JPG	SW	View of standing water on areas located north of employee parking lot, following days of precipitation
2642	11/2/2017	11:29	IMG_2642.JPG	W	Sheep-foot vibratory compaction roller used by RPC to compact area to north of employee parking lot
2643	11/2/2017	11:30	IMG_2643.JPG	E	Drum vibratory compaction roller used by RPC to compact area to north of employee parking lot
2644	11/2/2017	11:31	IMG_2644.JPG	E	Bulldozer used by RPC for surface prep prior to cover placement
2645	11/3/2017	NC	IMG_2645.JPG	E	RPC proceeds with first row of demarcation layer and cover soil placement, adjacent to N of employee lot
2646	11/2/2017	11:36	IMG_2646.JPG	W	Equipment used by RPC to collect fugitive soil from employee parking lot
2649	11/2/2017	11:38	IMG_2649.JPG	S	Ground surface on northwest portion of site after back-dragging with bulldozer
2650	11/2/2017	11:39	IMG_2650.JPG	SW	Ground surface on northwest portion of site after back-dragging with bulldozer
2651	11/2/2017	NC	IMG_2651.JPG	SW	View of standing water on areas located north of employee parking lot, following days of precipitation
2653	11/2/2017	13:25	IMG_2653.JPG	S	View of standing water on areas located north of employee parking lot, following days of precipitation
2656	11/2/2017	13:27	IMG_2656.JPG	S	Second and third row of demarcation layer are overlapped and rolled out from west to east
2660	11/2/2017	13:28	IMG_2660.JPG	S	Skid steer used to spread import fill soil from stockpile on edge of employee parking lot
2661	11/2/2017	13:31	IMG_2661.JPG	NW	Work progress of demarcation layer and cover soil placement
2662	11/2/2017	13:31	IMG_2662.JPG	N	Work progress of demarcation layer and cover soil placement
2663	11/2/2017	13:31	IMG_2663.JPG	E	Movement of excess topsoil, using a skid-steer, after back-dragging
2664	11/2/2017	13:31	IMG_2664.JPG	N	Movement of excess topsoil, using a skid-steer, after back-dragging
2680	11/15/2017	9:32	IMG_2680.JPG	W	Cover soil placement, completed to edge of employee parking lot on western portion of Site
2681	11/15/2017	9:32	IMG_2681.JPG	NW	Cover soil placement, completed to edge of employee parking lot on western portion of Site
2682	11/15/2017	9:32	IMG_2682.JPG	N	Cover soil placement, completed to edge of employee parking lot on western-central portion of Site
2683	11/15/2017	9:32	IMG_2683.JPG	NE	Cover soil placement, completed to edge of employee parking lot on central portion of Site
2684	11/15/2017	12:28	IMG_2684.JPG	NE	Cover soil placement on east-central portion of site
2685	11/15/2017	12:28	IMG_2685.JPG	E	Compaction, using vibratory roller, of cover soil placement on east-central portion of site
2686	11/15/2017	12:28	IMG_2686.JPG	SE	Compaction, using vibratory roller, of cover soil placement on east-central portion of site
2700	12/4/2017	14:48	IMG_2700.JPG	NW	Waste piles of soil/fill, awaiting disposal. Poly cover remains in place and in good condition
2701	12/4/2017	14:48	IMG_2701.JPG	NW	Cover soil placement, completed to edge of employee parking lot on eastern central portion of Site
2702	12/4/2017	14:48	IMG_2702.JPG	NW	Placement of cover soil around tree that will remain at the site, demarcation layer visible at tree base
2703	12/4/2017	14:48	IMG_2703.JPG	S	Cover soil placement, completed to edge of employee parking lot on eastern central portion of Site
2704	12/4/2017	14:48	IMG_2704.JPG	NW	Edge of completed portion of cover, with eastern property boundary flag in foreground, MW-D pro-top in view
2705	12/4/2017	14:48	IMG_2705.JPG	S	Eastern edge of Site, northeastern portion of Site compacted, but no cover or demarcation layer placed
2706	12/4/2017	14:50	IMG_2706.JPG	SW	Eastern edge of Site, northeastern portion of Site compacted, but no cover or demarcation layer placed
2707	12/4/2017	14:51	IMG_2707.JPG	SE	Northwestern portion of Site compacted, but no cover or demarcation layer placed MW-C pro top in view
2708	12/4/2017	14:51	IMG_2708.JPG	SE	View of edge compacted but un-covered portion of site in vicinity of MW-C
2709	12/4/2017	14:51	IMG_2709.JPG	S	Western edge of Site, northwestern portion of Site compacted, with back-drag spoils in foreground
2710	12/4/2017	14:51	IMG_2710.JPG	E	Edge of completed portion of cover, with edge of demarcation layer in view
2711	12/4/2017	14:52	IMG_2711.JPG	SE	View of area of completed cover (right) and area were cover is not complete (left)
2712	12/4/2017	14:52	IMG_2712.JPG	S	Standing water on portion of completed cover area
2713	12/4/2017	14:53	IMG_2713.JPG	SE	Western edge of Site, view of area of completed cover with employee parking lot in background
2714	12/4/2017	14:54	IMG_2714.JPG	NW	Western edge of Site, view of area of completed cover to edge of employee parking lot
2715	12/4/2017	14:54	IMG_2715.JPG	N	Central portion of Site, view of area of completed cover to edge of employee parking lot
2716	12/4/2017	14:54	IMG_2716.JPG	E	Waste piles of soil/fill, awaiting disposal. Poly cover remains in place and in good condition
2903	1/9/2018	7:51	IMG_2903.JPG	NW	Soil/fill waste piles exposed. Start loading UST excavation waste into tri-axel dump truck
2904	1/9/2018	7:58	IMG_2904.JPG	N	D&H Truck 52, loading - 1st load
2905	1/9/2018	7:58	IMG_2905.JPG	N	D&H Truck 20, loading - 1st load
2906	1/9/2018	NC	IMG_2906.JPG	N	D&H sub (Tracy) Truck 67, loading - 1st load

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2907	1/9/2018	NC	IMG_2907.JPG	E	D&H sub (Tracy) Truck 67, loading - 1st load
2908	1/9/2018	NC	IMG_2908.JPG	S	D&H Truck 35, loading - 1st load
2910	1/9/2018	8:43	IMG_2910.JPG	NW	RPC places remainder of UST excavation waste and poly sheeting into loader, metal waste fill on right of photo
2912	1/9/2018	8:46	IMG_2912.JPG	NW	Loading of UST excavation soil completed
2913	1/9/2018	8:49	IMG_2913.JPG	NW	D&H Truck 40, loading - 1st load
2914	1/9/2018	8:54	IMG_2914.JPG	NW	D&H Truck 27, loading - 1st load
2915	1/9/2018	NC	IMG_2915.JPG	NW	D&H Truck 29, loading - 1st load
2916	1/9/2018	9:01	IMG_2916.JPG	NW	D&H sub (Tracy) Truck 10, loading - 1st load
2917	1/9/2018	NC	IMG_2917.JPG	N/A	Waste hauler permit for Draper (E&T) Truck 31
2918	1/9/2018	NC	IMG_2918.JPG	N	D&H sub (Draper) Truck 31, loading - 1st load
2919	1/9/2018	9:18	IMG_2919.JPG	NE	Metal fill waste pile, subsequent loading of 1st round of trucks
2920	1/9/2018	10:24	IMG_2920.JPG	NW	D&H Truck 52, loading - 2nd load
2921	1/9/2018	10:28	IMG_2921.JPG	N	D&H sub (Tracy) Truck 67, loading- 2nd load
2922	1/9/2018	11:43	IMG_2922.JPG	N	D&H Truck 20, loading - 2nd load
2923	1/9/2018	10:52	IMG_2923.JPG	NW	D&H Truck 35, loading - 2nd load
2924	1/9/2018	11:07	IMG_2924.JPG	N	D&H Truck 27, loading - 2nd load
2925	1/9/2018	11:11	IMG_2925.JPG	NW	D&H Truck 40, loading - 2nd load
2926	1/9/2018	11:16	IMG_2926.JPG	NW	D&H Truck 29, loading - 2nd load
2927	1/9/2018	11:58	IMG_2927.JPG	N	D&H sub (Tracy) Truck 10, loading- 2nd load
2928	1/9/2018	12:28	IMG_2928.JPG	N	D&H Truck 52, loading - 3rd load
2929	1/9/2018	NC	IMG_2929.JPG	N	D&H Truck 27, loading - 3rd load
2930	1/9/2018	NC	IMG_2930.JPG	N	Metal Waste fill pile area, loading completed
2931	1/9/2018	13:32	IMG_2931.JPG	N	View of cover area, snow fencing placed along edge of employee parking lot to restrict access
2932	1/9/2018	13:32	IMG_2932.JPG	N	View of snow fencing placed around perimeter of un-covered (northern) portion of Site to restrict access
2933	1/9/2018	13:32	IMG_2933.JPG	NW	View of cover area, snow fencing placed along edge of employee parking lot to restrict access
2935	1/9/2018	13:32	IMG_2935.JPG	E	View of cover area, snow fencing placed along edge of employee parking lot to restrict access
2936	1/9/2018	13:34	IMG_2936.JPG	E	Area of former waste piles, cleanup completed
2937	1/9/2018	13:34	IMG_2937.JPG	NE	Area of former waste piles, cleanup completed
2938	1/9/2018	13:35	IMG_2938.JPG	N	Eastern edge of site, view of cover area (snow-covered) with uncovered (fenced) area in background
2939	1/9/2018	13:36	IMG_2939.JPG	N	Eastern edge of site, view of uncovered (fenced) area. MW-D pro-top in view
2940	1/9/2018	NC	IMG_2940.JPG	SW	Eastern edge of site, view of cover area (snow-covered) with employee parking lot in background
5172	6/17/2019	NC	IMG_5172.JPG	NE	Eastern portion of the interim soil cover, prior to resumption of BCP work
5173	6/17/2019	NC	IMG_5173.JPG	NW	Western portion of the interim soil cover, prior to resumption of BCP work
7697	7/30/2019	8:34	IMG_7697.JPG	N	Import soil placement over the interim soil cover on the northwestern portion of the Site; grade stake visible on right side of photo
7701	7/30/2019	8:36	IMG_7701.JPG	NW	Stockpile of soil excavated from southern portion of the site (i.e., Employee Parking Lot perimeter) and placed to crate berm on northwest portion of the site
7702	7/30/2019	9:29	IMG_7702.JPG	W	Southern edge of Employee Parking Lot, limited soil removal prior to placement of soil cover
7703	7/30/2019	9:29	IMG_7703.JPG	E	Southern edge of Employee Parking Lot, limited soil removal prior to placement of soil cover
7710	7/30/2019	9:53	IMG_7710.JPG	W	Southwest portion of Site; placement of demarcation layer fabric subsequent to limited soil removal
7711	7/30/2019	9:53	IMG_7711.JPG	SW	Southwest portion of Site; placement of demarcation layer fabric subsequent to limited soil removal
7712	7/30/2019	9:53	IMG_7712.JPG	NW	Southwest portion of Site; placement of demarcation layer fabric subsequent to limited soil removal
7716	7/30/2019	10:02	IMG_7716.JPG	E	Southwest portion of Site; placement of import soil cover over demarcation layer fabric; grade stake visible on right side of photo
7725	7/30/2019	10:12	IMG_7725.JPG	NE	Southern edge of Employee Parking Lot, limited soil removal prior to placement of soil cover
7729	7/30/2019	10:13	IMG_7729.JPG	SE	Southern edge of Employee Parking Lot, limited soil removal prior to placement of soil cover
7733	7/30/2019	11:01	IMG_7733.JPG	SW	Southern edge of Employee Parking Lot; placement of import soil cover over demarcation layer fabric; grade stakes visible on center-right side of photo
7735	7/30/2019	11:02	IMG_7735.JPG	SW	Southern edge of Employee Parking Lot; placement of import soil cover over demarcation layer fabric; grade stakes visible left to right in photo
7738	7/30/2019	11:03	IMG_7738.JPG	E	Southern edge of Employee Parking Lot; placement of import soil cover over demarcation layer fabric; grade stakes visible on center of photo
7742	7/30/2019	11:46	IMG_7742.JPG	SE	Southern edge of Employee Parking Lot; placement of import soil cover over demarcation layer fabric; grade stakes visible on center of photo
7765	7/31/2019	8:17	IMG_7765.JPG	SW	Southern edge of Employee Parking Lot; placement of import soil cover over demarcation layer fabric
7767	7/31/2019	8:17	IMG_7767.JPG	SE	Southern edge of Employee Parking Lot, limited soil removal prior to placement of soil cover; grade stake visible on center of photo
7774	7/31/2019	10:11	IMG_7774.JPG	SW	Southwest portion of Site; limited soil removal prior to placement of soil cover

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7786	7/31/2019	11:32	IMG_7786.JPG	SE	Southwest portion of Site; placement of import soil cover over demarcation layer fabric (right); limited soil removal prior to placement of soil cover (left)
7787	7/31/2019	11:32	IMG_7787.JPG	S	Southwest portion of Site; placement of import soil cover over demarcation layer fabric
7788	7/31/2019	11:39	IMG_7788.JPG	SW	Southwest portion of Site; placement of import soil cover over demarcation layer fabric; grade stake visible on center of photo
7792	7/31/2019	13:00	IMG_7792.JPG	NW	Southwest portion of Site; limited soil removal prior to placement of soil cover
7812	8/1/2019	9:20	IMG_7812.JPG	S	Southeast portion of Site; placement of import soil cover over demarcation layer fabric
7825	8/1/2019	11:29	IMG_7825.JPG	S	Southeast portion of Site; placement of import soil cover over demarcation layer fabric; grade stakes visible on center of photo
7827	8/1/2019	11:29	IMG_7827.JPG	SW	Southeast portion of Site; placement of demarcation layer fabric over limited excavation
7828	8/1/2019	11:29	IMG_7828.JPG	N	Southeast portion of Site; placement of import soil cover over demarcation layer fabric; grade stakes visible on center of photo
7837	8/1/2019	13:56	IMG_7837.JPG	SW	Southeast portion of Site; import soil cover placed and compacted; property corner stake visible on left of photo
7839	8/1/2019	14:18	IMG_7839.JPG	S	Southeast portion of Site; placement of import soil cover over demarcation layer fabric; grade stakes visible on center of photo
8059	8/13/2019	10:14	IMG_8059.JPG	SE	Center portion of the Site; removal of interim soil cover to depth of demarcation layer fabric in preparation for construction of drainage channel
8061	8/13/2019	10:14	IMG_8061.JPG	SE	Center portion of the Site; removal of interim soil cover to depth of demarcation layer fabric in preparation for construction of drainage channel
8062	8/13/2019	10:15	IMG_8062.JPG	NE	Placement of demarcation fabric and grade stakes over stockpile of soil excavated from southern portion of the site (i.e., Employee Parking Lot perimeter);placed to crate berm on northwest portion of the site; import soil placed up to the southeast edge of berm (right)
8063	8/13/2019	10:15	IMG_8063.JPG	E	Import soil placed over northern portion of Site; grade stakes visible top portion of photo
8111	8/21/2019	11:26	IMG_8111.JPG	N	North-central portion of Site; limited excavation below demarcation fabric (removed) prior to construction of drainage channel
8120	8/21/2019	13:47	IMG_8120.JPG	E	Adjacent to north of the Employee Parking Lot; limited excavation below demarcation fabric (removed) prior to construction of drainage channel
8147	8/22/2019	12:56	IMG_8147.JPG	E	Adjacent to north of the Employee Parking Lot; limited excavation below demarcation fabric (removed) prior to construction of drainage channel
8151	8/22/2019	13:07	IMG_8151.JPG	E	Adjacent to north of the Employee Parking Lot; limited excavation below demarcation fabric (removed) prior to construction of drainage channel
8160	8/22/2019	14:07	IMG_8160.JPG	W	Adjacent to north of the Employee Parking Lot; replacement of demarcation fabric and placement of import stone into drainage channel
8172	8/26/2019	12:17	IMG_8172.JPG	E	Adjacent to north of the Employee Parking Lot; placed import stone into drainage channel; grade stake visible on left of photo
8173	8/26/2019	12:17	IMG_8173.JPG	N	North-central portion of Site; placed import stone into drainage channel; grade stakes visible left to right of photo
8181	8/26/2019	12:59	IMG_8181.JPG	N	Northwest portion of Site; placement of import soil
8187	8/26/2019	12:59	IMG_8187.JPG	NE	Northwest portion of Site; placement of import soil over demarcation fabric; grade stakes visible center of photo
8195	8/26/2019	13:00	IMG_8195.JPG	E	Northeast portion of Site; placement of import soil over demarcation fabric; grade stakes visible center of photo
8199	8/26/2019	13:42	IMG_8199.JPG	S	Southwest portion of Site; placement of screened import soil over import soil in preparation for seeding
8205	8/26/2019	14:09	IMG_8205.JPG	E	Southern edge of Site; placement of screened import soil over import soil in preparation for seeding
8210	8/28/2019	11:50	IMG_8210.JPG	NE	Northeast portion of Site; mulch placed around existing tree; grade stakes visible under canopy
8214	8/28/2019	11:50	IMG_8214.JPG	E	Northeast portion of Site; mulch placed around existing tree; grade stake in foreground; property line stake in background
8217	8/28/2019	12:35	IMG_8217.JPG	N	Northwest portion of Site; placed soil cover (top) and placed stone (bottom-right) along western property boundary; grade stakes on right of photo
8218	8/28/2019	12:35	IMG_8218.JPG	NE	Northwest portion of Site; placed soil cover with strip of placed stone for drainage channel; grade stakes on left of photo
8219	8/28/2019	12:36	IMG_8219.JPG	N	Northwest portion of Site; placed soil cover along the western property boundary; string line and property stake demarking property line on left of photo
8223	8/28/2019	12:37	IMG_8223.JPG	E	Northeast portion of Site; placement of soil cover over demarcation fabric (orange and black); grade stakes on left of photo
8230	8/28/2019	12:38	IMG_8230.JPG	S	Northeast portion of Site; placed mulch under existing trees (left) and soil cover (right); grade stakes on left of photo
8233	8/28/2019	12:39	IMG_8233.JPG	S	East-central portion of Site; placed mulch under existing trees (left) and soil cover (right); grade stakes on left and top of photo; property line stakes on left
9000	9/9/2019	11:50	IMG_9000.JPG	N	Central portion of Site; completed soil cover (background) and drainage channel (foreground)
9001	9/9/2019	11:50	IMG_9001.JPG	NW	Western edge of the Site; completed drainage channel and completed soil cover (right); edge of employee parking lot (left)
9002	9/9/2019	11:50	IMG_9002.JPG	N	Central portion of Site; completed soil cover (background) and drainage channel (foreground); edge of employee parking lot (left)
9100	10/11/2019	--	IMG_9100.JPG	NE	Employee Parking Lot; asphalt repair on northern portion of lot. Sealed cracks in asphalt visible in foreground.
9101	Oct-19	--	IMG_9101.JPG	SE	Employee Parking Lot; asphalt repaired on central portion of lot.
9102	Oct-19	--	IMG_9102.JPG	N	Employee Parking Lot; asphalt repaired on northern portion of lot.
9103	Oct-19	--	IMG_9103.JPG	N	Employee Parking Lot; asphalt repaired on northern portion of lot.
9104	Oct-19	--	IMG_9104.JPG	SW	Employee Parking Lot; asphalt repaired on western/central portion. Sealed cracks in asphalt visible in foreground and background.
9105	Oct-19	--	IMG_9105.JPG	SE	Employee Parking Lot; asphalt repair on eastern portion of lot. Sealed cracks in asphalt visible in foreground.
9106	Oct-19	--	IMG_9106.JPG	E	Employee Parking Lot; asphalt repaired on eastern portion of lot.
9107	Oct-19	--	IMG_9107.JPG	N	Employee Parking Lot; asphalt repaired on eastern portion of lot.


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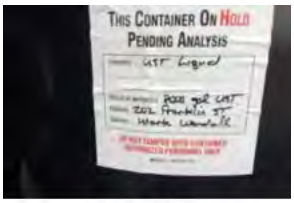

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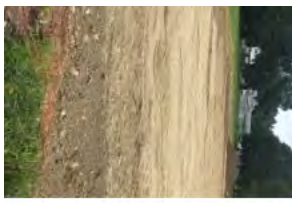

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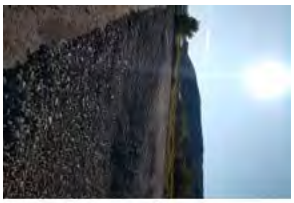
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APPENDIX E

SOIL/FILL WASTE CHARACTERIZATION AND DISPOSAL DOCUMENTATION

WASTE MANAGEMENT INC

WASTE PROFILE 118494NY

APPLICATION AND ACCEPTANCE DOCUMENTS

WASTE MANAGEMENT

EZ Profile™

Requested Facility: Chaffee Landfill ☐ Unsure Profile Number: 118494NY

☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Solepoxy
2. Site Address: 202 Franklin Street
   (City, State, ZIP) Olean NY 14760
3. County: Chautauqua
4. Contact Name: Robert Groele
5. Email: Robert.Groele@solepoxy.com
6. Phone: (716) 372-6300 7. Fax: _____
8. Generator EPA ID: _____ ☑ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: Solepoxy
2. Billing Address: 211 Franklin Street
   (City, State, ZIP) Olean NY 14760
3. Contact Name: Robert Groele
4. Email: Robert.Groele@solepoxy.com
5. Phone: (716) 372-6300 6. Fax: _____
7. WM Hauled? ☐ Yes ☑ No
8. P.O. Number: _____
9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

1. Common Name: Non Hazardous soil and debris
   Describe Process Generating Material: ☐ See Attached
   "Urban Fill Type Contaminated Soil and Debris
2. Material Composition and Contaminants: ☐ See Attached

1. Non hazardous soil	100 %
2. Debris: small pieces of wood, concrete	1-5 %
3.	
4.	
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: brown/black
5. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: _____ to _____ ☑ N/A
7. pH: _____ to _____ ☑ N/A
8. Strong Odor: ☐ Yes ☑ No Describe: _____
9. Flash Point: ☐ <140°F ☐ 140°–199°F ☐ ≥200° ☑ N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☐ Yes ☑ No
   Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☐ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☑ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No
   c. Were PCB imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☑ No
11. Contains Asbestos? ☐ Yes ☑ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes
   Please identify applicable samples and/or lab reports:
2. Other information attached (such as MSDS)? ☐ Yes

F. SHIPPING AND DOT INFORMATION

1. ☐ One-Time Event ☑ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 750
   ☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other: _____
3. Container Type and Size: _____
4. USDOT Proper Shipping Name: ☐ N/A

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Robert Groele Date: 11/29/17

Title: VP Engineering

Company: Sol Epoxy, Inc

Certification Signature



©2015 Waste Management

From: New York TSC [mailto:wm@wmsolutions.com]
Sent: Wednesday, December 20, 2017 2:01 PM
To: Mark Wendel <Mark.Wendel@solepoxy.com>
Subject: [WMSolutions.com] Profile 118494NY (SolEpoxy) has been approved





Notice of Profile Approval: 118494NY

Profile Number:
118494NY
Waste Stream:
NH Soil and Debris
Generator Name:
SolEpoxy
Disposal Site:
Chaffee Landfill
Expiration Date:
12/19/2018

Dear Robert Groele,

We are pleased to inform you that Profile 118494NY has been approved by our

New York TSC Technical Service Center. Your Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your WMSolutions.com account.

Please feel free to email us at TSCEastNY@wm.com or call 800-963-4776 with any questions.

Thank you for choosing Waste Management.

New York TSC
1550 Balmer Road
Model City, NY 14107
Phone: 716-286-1550
TSCEastNY@wm.com

You are receiving this message as a registered customer of WMSolutions.com.

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WASTE MANAGEMENT INC

WASTE PROFILE 118496NY

APPLICATION AND ACCEPTANCE DOCUMENTS

WASTE MANAGEMENT

EZ Profile™

Requested Facility: Chaffee Landfill ☐ Unsure Profile Number: 118496NY

☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: Solepoxy
2. Site Address: 202 Franklin Street
   (City, State, ZIP) Olean NY 14760
3. County: Chautauqua
4. Contact Name: Robert Groele
5. Email: Robert.Groele@solepoxy.com
6. Phone: (716) 372-6300 7. Fax: _____
8. Generator EPA ID: _____ ☑ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: Solepoxy
2. Billing Address: 211 Franklin Street
   (City, State, ZIP) Olean NY 14760
3. Contact Name: Robert Groele
4. Email: Robert.Groele@solepoxy.com
5. Phone: (716) 372-6300 6. Fax: _____
7. WM Hauled? ☐ Yes ☑ No
8. P.O. Number: _____
9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

1. Common Name: Non Hazardous soil and debris
   Describe Process Generating Material: ☐ See Attached

   Removal of underground storage tank - • Report SC 40022

2. Material Composition and Contaminants: ☐ See Attached

1. Non hazardous soil	100 %
2. Debris: small pieces of wood, concrete	1-5 %
3.	
4.	
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: brown/black
5. Physical State at 70°F: ☑ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: _____ to _____ ☑ N/A
7. pH: _____ to _____ ☑ N/A
8. Strong Odor: ☐ Yes ☑ No Describe: _____
9. Flash Point: ☐ <140°F ☐ 140°–199°F ☐ ≥200° ☑ N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☐ Yes ☑ No
   Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. From an industry regulated under Benzene NESHAP? ☐ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☐ No
8. NRC or State-regulated radioactive or NORM waste? ☐ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☑ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61 (a)? ☐ Yes ☐ No
   c. Were PCB imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☑ No
11. Contains Asbestos? ☐ Yes ☑ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable – Regulated ☐ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes
   Please identify applicable samples and/or lab reports:

2. Other information attached (such as MSDS)? ☐ Yes

F. SHIPPING AND DOT INFORMATION

1. ☐ One-Time Event ☑ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 200
   ☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other: _____
3. Container Type and Size: _____
4. USDOT Proper Shipping Name: ☐ N/A

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 – Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

If I am an agent signing on behalf of the Generator, I have confirmed with the Generator that information contained in this Profile is accurate and complete.

Name (Print): Robert Groele Date: 11/29/17

Title: VP Engineering

Company: SolEpoxy, Inc.

Certification Signature

Robert J. Groele

©2015 Waste Management

From: New York TSC [mailto:wm@wmsolutions.com]
Sent: Thursday, December 21, 2017 4:23 PM
To: Mark Wendel <Mark.Wendel@solepoxy.com>
Subject: [WMSolutions.com] Profile 118496NY (SolEpoxy) has been approved





Notice of Profile Approval: 118496NY

Profile Number:
118496NY
Waste Stream:
NH Soil and Debris
Generator Name:
SolEpoxy
Disposal Site:
Chaffee Landfill
Expiration Date:
12/21/2018

Dear Robert Groele,

We are pleased to inform you that Profile 118496NY has been approved by our

New York TSC Technical Service Center. Your Waste Approval Terms and Conditions can be found on either your *Profile Form* or *Approval Form*. Both documents are available as a PDF in the *Approved Tab* in your WMSolutions.com account.

Please feel free to email us at TSCEastNY@wm.com or call 800-963-4776 with any questions.

Thank you for choosing Waste Management.

New York TSC
1550 Balmer Road
Model City, NY 14107
Phone: 716-286-1550
TSCEastNY@wm.com

You are receiving this message as a registered customer of WMSolutions.com.

Waste Management respects your privacy. To review our Privacy Policy, click here.

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TRANSPORT AND DISPOSAL DOCUMENTATION

FOR

WASTE PROFILES 118494NY AND 118496NY

202 FRANKLIN STREET, OLEAN, NEW YORK
NYSDEC BROWNFIELD CLEANUP PROGRAM SITE #C 905043
SUMMARY OF WASTE TRANSPORT AND DISPOSAL FOR JANUARY 9, 2018

Waste Management Profile ID	Waste Manifest ID	Chafee Landfill Ticket Number	Transporter Vehicle ID	Quantity Of Waste Transported/ Disposed (Tons)
118494NY	6421979	541358	40	15.83
118494NY	6421980	541359	27	16.78
118494NY	6421981	541362	29	17.74
118494NY	6421982	541365	10	17.24
118494NY	6421983	541366	31	18.76
118494NY	6421984	541387	52	21.87
118494NY	6421985	541388	67	21.00
118494NY	6421986	541389	20	19.65
118494NY	6421987	541401	35	20.91
118494NY	6421988	541405	27	23.58
118494NY	6421989	541406	40	21.21
118494NY	6421990	541414	29	21.35
118494NY	6421991	541436	52	22.47
118494NY	6421992	541419	10	19.66
118494NY	6421993	541454	27	10.97
Profile 118494NY (Metal Waste Area) Waste Total:				**289.02**
118496NY	6421999	541344	52	21.10
118496NY	6422000	541346	20	21.04
118496NY	6422001	541345	67	23.43
118496NY	6422002	541354	35	20.68
Profile 118496NY (UST Excavation) Waste Total:				**86.25**

9A-834

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** **716-372-6300**	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	**WMNA**	6421979
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H YC		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

1S. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T1 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WENDEL		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

541358

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541358

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421979
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:53:11	INBOUND	JChapma7		Gross	61000 lb
Out	01/09/2018 10:09:29	OUTBOUND	JChapma7		Tare	29340 lb
					Net	31660 lb
					Tons	15.83

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	15.83	Tons				CHA
2	RCR-P-Regulatory C	100		%				
3	EVF-P10-Environmen	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-9-18 LOAD LOCATION: Olean

CUSTOMER: Sealed epoxy

JOB SITE:

DRIVER: Rick Sr TRUCK # 40

EQUIPMENT:

HOURLY

START

LUNCH: FROM left [illegible] TO ☐ NO LUNCH

FINISH 2:23 drove out to get another load of salt

TOTAL 2130 at shop need me

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541358	15.83	9A	8:20	9:00
541496	21.21		11:10	

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

28521

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 — Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6421980

B. State Generator's ID

5. Transporter 1 Company Name
D&H

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T2 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WENDEL		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

541359

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541359

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421980
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:54:02	INBOUND	JChapma7		Gross	62620 lb
Out	01/09/2018 10:08:00	OUTBOUND	JChapma7		Tare	29060 lb
					Net	33560 lb
					Tons	16.78

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	16.78	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1/9 LOAD LOCATION: 202 Franklin st. Olean

CUSTOMER: Sol Epoxy

JOB SITE: 202 Franklin St. Olean NY

DRIVER: Justin TRUCK # 27

EQUIPMENT:

HOURLY

START

LUNCH: FROM TO ☐ NO LUNCH

FINISH

TOTAL

Load Gill mgt

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541359	16.78	Dirty Dirt	$20	900
541405	23.58	Dirty Dirt		.33
541454	10.97	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

31354

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** 716-372-6300	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	WMNA	6421981
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 29		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T3 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenger		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Shane Lukhart		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

541362

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541362

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421981
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 29
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:59:28	INBOUND	JChapma7		Gross	64880 lb
Out	01/09/2018 10:17:40	OUTBOUND	JChapma7		Tare	29400 lb
					Net	35480 lb
					Tons	17.74

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	17.74	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.
11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-9-18 LOAD LOCATION:
CUSTOMER: Soleppy
JOB SITE: Franklinny street Alden
DRIVER: Shane TRUCK # 29
EQUIPMENT:

HOURLY

START 815
LUNCH: FROM TO ☒ NO LUNCH
FINISH 115
TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541362	17.74	Contam. Dirt	815	900 H2
		@ WASTE	1000	1020
541414	2135	Contam. Dirt	1130	1145
		@ WASTE	1245	115

H2

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB
Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

31313
CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** **716-372-6300**	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	**WMNA**	6421982
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 10		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS TH WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WENDEL		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Todd VanDeWerker		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

541365

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541365

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421982
Destination
PO
Profile 118494NY (NM SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 10
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 10:03:55	INBOUND	JChapma7		Gross	62250 lb
Out	01/09/2018 10:22:52	OUTBOUND	JChapma7		Tare	27780 lb
					Net	34480 lb
					Tons	17.24

Comments

21

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	17.24	Tons				CHA
2	RCR-R-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

Tracey Trucking, Inc.

P.O. Box 906, Arcade, NY 14009
(716) 258-1765

DATE: 1/3/19 LOAD LOCATION: 21 Franklin ST down

CUSTOMER: Sol epoxy

JOB SITE: Olean

DRIVER: Todd TRUCK # 10

EQUIPMENT:

HOURLY

START 8:40

LUNCH: FROM _____ TO _____ ☒ NO LUNCH

FINISH

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
54136	17.24	Dirty Dirt	8:35	
54149	19.66	"		1:12

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves Tracey Trucking, Inc., or its agents of any responsibility for any damage cause by moving vehicle beyond limits of improved road or right of way.

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** **716-372-6300**	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	WMNA	6421983
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 31		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T5 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenzel		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Frederic Williams		1	9	2018

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

541366

WASTE MANAGEMENT

Chaffee LF
10060 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541366

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421983
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier - DRAPER DRAPER TRUCKING
Vehicle# 31 Volume
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

	Time	Scale	Operator	Inbound		
In	01/09/2018 10:06:06	INBOUND	JChapma7		Gross	66240 lb
Out	01/09/2018 10:25:40	OUTBOUND	JChapma7		Tare	28720 lb
					Net	37520 lb
					Tons	18.76

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	18.76	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 264-1575

403WM

(716) 537-2275 60892

DRAPER TRUCKING, LLC

400 North Main Street (Rt. 16)
P.O. Box 10
Holland, NY 14080

Date 1-9-17

Customer Sol epoxy

Job Sol epoxy - Dist Disby

Truck No. 31 Driver E. Willis

LOAD LOCATION Sol epoxy
DUMP LOCATION waste management
MATERIAL Disby Dist
REMARKS

Job Start
Job Finish
Travel Time
☐ Lunch ☐ No Lunch
Total

LD#	TICKET #	WEIGHT	WAIT-TIME IN - OUT	ALLOW	TOTAL
1	541366	18.76			
	½ hr. Waiting time / Travel Time				

Customer Signature:

Our Responsibility Ends At The Curb

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** **716-372-6300**	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	WMNA	6421984
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 52		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T6 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenzel		7	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Chris Nichols	C Nichols	7	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		7	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

541387

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541387

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421984
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 52
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 11:24:33	INBOUND	JChapma7		Gross	72880 lb
Out	01/09/2018 11:37:28	OUTBOUND	JChapma7		Tare	29140 lb
					Net	43740 lb
					Tons	21.87

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	21.87	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-8-18 LOAD LOCATION: 203 Franklin st olean

CUSTOMER:

JOB SITE:

DRIVER: Chris TRUCK # 52

EQUIPMENT:

HOURLY

START 8:00

LUNCH: FROM ____ TO ____ NO LUNCH

FINISH 2:15

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541344	21.10	Dirty Dirt		
541387	21.87	Dirty Dirt		
541436	22.47	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

28244

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6421985

B. State Generator's ID

5. Transporter 1 Company Name
D&H 67

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell
Level
Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T7 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wagoner		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Clark	John Clark	1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

541388

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541388

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421985
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 67
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 11:25:26	INBOUND	JChapma7		Gross	72740 lb
Out	01/09/2018 11:39:01	OUTBOUND	JChapma7		Tare	30740 lb
					Net	42000 lb
					Tons	21.00

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	21.00	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

Tracey Trucking, Inc.

P.O. Box 906, Arcade, NY 14009
(716) 258-1765

DATE: 1-9-18 LOAD LOCATION: Olean N.Y.

CUSTOMER: Solepoxy

JOB SITE: 24 Franklin St

DRIVER: John TRUCK # 67

EQUIPMENT: Tri Axle

Take to Waste Management Chaffee

HOURLY

START 8:30am

LUNCH: FROM _____ TO _____ ☐ NO LUNCH

FINISH 11:45am

TOTAL 3 1/2 hr Travel

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
1345	23.43	YA Fill		
1398	21.00	"		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves Tracey Trucking, Inc., or its agents of any responsibility for any damage cause by moving vehicle beyond limits of improved road or right of way.

6576 _____
CUSTOMER'S SIGNATURE

QUILL.COM Ref. No. G 192100501

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 **4. Generator's Phone** **716-372-6300**	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	WMNA	6421986
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 20		D. Transporter's Phone
7. Transporter 2 Company Name	**8. US EPA ID Number**	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	**10. US EPA ID Number**	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T8 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wagner		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Chad J Benjamin				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

541389

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541389

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421986
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 20
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	01/09/2018 11:28:01	INBOUND	JChapma7	
Out	01/09/2018 11:40:21	OUTBOUND	JChapma7	

Gross	67300 lb
Tare	28000 lb
Net	39300 lb
Tons	19.65

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	19.65	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1/9/18 LOAD LOCATION: 202 Franklin St

CUSTOMER: Solepoxy INC

JOB SITE: 202 Franklin St

DRIVER: Chad TRUCK # 20

EQUIPMENT:

HOURLY

START 800

LUNCH: FROM _____ TO _____ ☑ NO LUNCH

FINISH 1145

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541346	21.04	Dirty Dirt	800	
541389	19.65	11		1145

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

32252 _____
CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760
4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number WMNA 6421987
B. State Generator's ID

5. Transporter 1 Company Name D&H 35
6. US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030
10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T9 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WENDEL		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
GEORGE SCHULTZ		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

541401

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541401

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421987
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	01/09/2018 12:01:21	INBOUND	JChapma7	
Out	01/09/2018 12:13:49	OUTBOUND	JChapma7	

Gross	71020 lb
Tare	29200 lb
Net	41820 lb
Tons	20.91

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	20.91	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE 1-9-18 LOAD LOCATION FRANKLIN ST OLEAN

CUSTOMER: SOLE PROXY

JOB SITE: W-M LANDFILL

DRIVER: GEORGE TRUCK # 35

EQUIPMENT:

HOURLY

START 6 AM

LUNCH: FROM _____ TO _____ [X] NO LUNCH

FINISH 12:30 PM

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF J
541348	20 TN	DIRTY DIRT		
541461	20 TN	DIRTY DIRT		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINU
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his represe relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility damage caused by moving vehicle beyond limits of improved road or right of way.

28935

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 — Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number WMNA 6421988

B. State Generator's ID

5. Transporter 1 Company Name D&H 27

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T10 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

54405

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541405

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421988
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 12:09:30	INBOUND	JChapma7		Gross	76000 lb
Out	01/09/2018 12:22:11	OUTBOUND	JChapma7		Tare	28840 lb
					Net	47160 lb
					Tons	23.58

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	23.58	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1/9 LOAD LOCATION: 202 Franklin st. Olean

CUSTOMER: Sol Epoxy

JOB SITE: 202 Franklin St. Olean NY

DRIVER: Justin TRUCK # 27

EQUIPMENT:

HOURLY

START

LUNCH: FROM TO ☐ NO LUNCH

FINISH

TOTAL

Load Gill mgt

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541359	16.78	Dirty Dirt	$20	900
541405	23.58	Dirty Dirt		.33
541454	10.97	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

31354

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760
4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number **WMNA** 6421989
B. State Generator's ID

5. Transporter 1 Company Name D&H 40
6. US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number
G. State Facility ID
H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T11 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenger		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Richard Magan		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

541406

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541406

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421989
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 40
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 12:10:53	INBOUND	JChapma7		Gross	71680 lb
Out	01/09/2018 12:23:48	OUTBOUND	JChapma7		Tare	29260 lb
					Net	42420 lb
					Tons	21.21

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.21	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-9-18 LOAD LOCATION: Olean

CUSTOMER: Sealed epoxy

JOB SITE:

DRIVER: Rick Sr TRUCK # 40

EQUIPMENT:

HOURLY

START

LUNCH: FROM left [illegible] TO ☐ NO LUNCH

FINISH 2:23 drove out to get another load of salt

TOTAL 2130 at shop need me

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541358	15.83	9A	8:20	9:00
541496	21.21		11:10	

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

28521

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 — Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6421990

B. State Generator's ID

5. Transporter 1 Company Name
D&H EXCAVATION

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T12 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WERNER		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
SHANE CULLEHART		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

54144

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541414

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421990
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 29
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 12:43:37	INBOUND	JChapma7		Gross	71640 lb
Out	01/09/2018 13:09:33	OUTBOUND	JChapma7		Tare	28940 lb
					Net	42700 lb
					Tons	21.35

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.35	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.
11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-9-18 LOAD LOCATION:
CUSTOMER: Soleppy
JOB SITE: Franklinny street Alden
DRIVER: Shane TRUCK # 29
EQUIPMENT:

HOURLY

START 815
LUNCH: FROM TO ☒ NO LUNCH
FINISH 115
TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541362	17.74	Contam. Dirt	815	900 H2
		@ WASTE	1000	1020
541414	2135	Contam. Dirt	1130	1145
		@ WASTE	1245	115

H2

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB
Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

31313
CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
SOLEPOXY ATTN: ROBERT GROELE 211 FRANKLIN ST. OLEAN, NY 14760 4. Generator's Phone 716-372-6300	SOLEPOXY 202 FRANKLIN ST. OLEAN, NY 14760	WMNA	6421991
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
D&H 52		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
WM OF NEW YORK AT CHAFFEE LANDFILL 10860 OLEAN RD. CHAFFEE, NY 14030		H. State Facility Phone 716-496-5192

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

118494NY – NON HAZARDOUS SOIL & DEBRIS T13 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenzel		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Chris Nichols		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

541436

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541436

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421991
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 52
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	01/09/2018 13:32:37	INBOUND	JChapma7	
Out	01/09/2018 13:53:18	OUTBOUND	mbaker13	

Gross	73900 lb
Tare	28960 lb
Net	44940 lb
Tons	22.47

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	22.47	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-8-18 LOAD LOCATION: 203 Franklin st olean

CUSTOMER:

JOB SITE:

DRIVER: Chris TRUCK # 52

EQUIPMENT:

HOURLY

START 8:00

LUNCH: FROM ____ TO ____ NO LUNCH

FINISH 2:15

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541344	21.10	Dirty Dirt		
541387	21.87	Dirty Dirt		
541436	22.47	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

28244

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 — Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6421992

B. State Generator's ID

5. Transporter 1 Company Name
D&H

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T14 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenzel		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Todd VanDeusen		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

54149

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541419

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421992
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 10
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 12:57:41	INBOUND	JChapma7		Gross	67300 lb
Out	01/09/2018 13:11:36	OUTBOUND	JChapma7		Tare	27980 lb
					Net	39320 lb
					Tons	19.66

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCB-Tons	100	19.66	Tons	-			CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

Tracey Trucking, Inc.

P.O. Box 906, Arcade, NY 14009
(716) 258-1765

DATE: 1/3/19 LOAD LOCATION: 21 Franklin ST down

CUSTOMER: Sol epoxy

JOB SITE: Olean

DRIVER: Todd TRUCK # 10

EQUIPMENT:

HOURLY

START 8:40

LUNCH: FROM _____ TO _____ ☒ NO LUNCH

FINISH

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
54136	17.24	Dirty Dirt	8:35	
54149	19.66	"		1:12

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves Tracey Trucking, Inc., or its agents of any responsibility for any damage cause by moving vehicle beyond limits of improved road or right of way.

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6421993

B. State Generator's ID

5. Transporter 1 Company Name
D&H 27

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118494NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
118494NY – NON HAZARDOUS SOIL & DEBRIS T15 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Mark Wenner		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Justin Fitzsimons		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
M Bolen	M Bolen	1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WM Chaffee LF 541454

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541454

Customer Name SOLEPOXYINC-118494NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421993
Destination
PO 8972
Profile 118494NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 27
Container
Driver
Check#
Billing # 0004027
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 14:18:49	INBOUND	mbaker13		Gross	50680 lb
Out	01/09/2018 14:33:22	OUTBOUND	mbaker13		Tare	28740 lb
					Net	21940 lb
					Tons	10.97

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	10.97	Tons				CHA
2	RCR-P-Regulatory C	100		%				
3	EVF-Pi0-Environmen	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1/9 LOAD LOCATION: 202 Franklin st. Olean

CUSTOMER: Sol Epoxy

JOB SITE: 202 Franklin St. Olean NY

DRIVER: Justin TRUCK # 27

EQUIPMENT:

HOURLY

START

LUNCH: FROM TO ☐ NO LUNCH

FINISH

TOTAL

Load Gill mgt

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541359	16.78	Dirty Dirt	$20	900
541405	23.58	Dirty Dirt		.33
541454	10.97	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

31354

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.

2. Page 1 of 1

A. Manifest Number WMNA 6421999

B. State Generator's ID

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

5. Transporter 1 Company Name
D&H

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118496NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell
Grid
Level

15. Special Handling Instructions and Additional Information
118496NY – NON HAZARDOUS SOIL & DEBRIS T21 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WERNER		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Chris Nichols				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Thomas		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

54134

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541344

Customer Name SOLEPOXYINC-118496NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6421999
Destination
PO
Profile 118496NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 52
Container
Driver
Check#
Billing # 0004028
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound
In	01/09/2018 09:15:26	INBOUND	JChapma7	
Out	01/09/2018 09:31:22	OUTBOUND	JChapma7	

Gross	71440 lb
Tare	29240 lb
Net	42200 lb
Tons	21.10

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.10	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1-8-18 LOAD LOCATION: 203 Franklin st olean

CUSTOMER:

JOB SITE:

DRIVER: Chris TRUCK # 52

EQUIPMENT:

HOURLY

START 8:00

LUNCH: FROM ____ TO ____ NO LUNCH

FINISH 2:15

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541344	21.10	Dirty Dirt		
541387	21.87	Dirty Dirt		
541436	22.47	Dirty Dirt		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

28244

CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.

2. Page 1 of 1

A. Manifest Number WMNA 6422000

B. State Generator's ID

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

5. Transporter 1 Company Name
D&H 20

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118496NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell
Level
Grid

15. Special Handling Instructions and Additional Information
118496NY – NON HAZARDOUS SOIL & DEBRIS T22 WEIGHT IS ESTIMATED

Purchase Order # 008972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name Mark Wenrose Signature [signature] Month 1 Day 9 Year 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed Name Chad J Benjamin Signature [signature] Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed Name Signature Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.
Printed Name [signature] Signature [signature] Month 1 Day 9 Year 18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

541346

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541346

Customer Name SOLEPOXYINC-118496NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6422000
Destination
PO
Profile 118496NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 20
Container
Driver
Check#
Billing # 0004028
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:18:13	INBOUND	JChapma7		Gross	70340 lb
Out	01/09/2018 09:34:31	OUTBOUND	JChapma7		Tare	28260 lb
					Net	42080 lb
					Tons	21.04

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	21.04	Tons				CHA
2	RCR-P-Regulatory C	100		%				
3	EVF-P10-Environmen	100		%				
4	LFS4-LANDFILL FIXE	100		%				

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE: 1/9/18 LOAD LOCATION: 202 Franklin St

CUSTOMER: Solepoxy INC

JOB SITE: 202 Franklin St

DRIVER: Chad TRUCK # 20

EQUIPMENT:

HOURLY

START 800

LUNCH: FROM _____ TO _____ ☑ NO LUNCH

FINISH 1145

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
541346	21.04	Dirty Dirt	800	
541389	19.65	11		1145

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility for any damage caused by moving vehicle beyond limits of improved road or right of way.

32252 _____
CUSTOMER'S SIGNATURE

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. NYR000233627 — Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6422001

B. State Generator's ID

5. Transporter 1 Company Name D&H 07

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118496NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
118496NY – NON HAZARDOUS SOIL & DEBRIS T23 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
Robert Groele		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
John Clark	John Clark	1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

54135

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541345

Customer Name SOLEPOXYINC-118496NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6422001
Destination
PO
Profile 118496NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 67
Container
Driver
Check#
Billing # 0004020
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:16:49	INBOUND	JChapma7		Gross	77540 lb
Out	01/09/2018 09:32:44	OUTBOUND	JChapma7		Tare	30680 lb
					Net	46860 lb
					Tons	23.43

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount
1	Cont Soil RCB-Tons	100	23.43	Tons			
2	RCR-P-Regulatory C	100		%			
3	EVF-P10-Environmen	100		%			
4	LFS4-LANDFILL FIXE	100		%			

Total Fees
Total Ticket

Driver's Signature

2E4-1575

403WM

Tracey Trucking, Inc.

P.O. Box 906, Arcade, NY 14009
(716) 258-1765

DATE: 1-9-18 LOAD LOCATION: Olean N.Y.

CUSTOMER: Solepoxy

JOB SITE: 24 Franklin St

DRIVER: John TRUCK # 67

EQUIPMENT: Tri Axle

Take to Waste Management Chaffee

HOURLY

START 8:30am

LUNCH: FROM _____ TO _____ ☐ NO LUNCH

FINISH 11:45am

TOTAL 3 1/2 hr Travel

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF JOB
1345	23.43	YA Fill		
1398	21.00	"		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINUTES
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his representative relieves Tracey Trucking, Inc., or its agents of any responsibility for any damage cause by moving vehicle beyond limits of improved road or right of way.

6576 _____
CUSTOMER'S SIGNATURE

QUILL.COM Ref. No. G 192100501

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. NYR000233627 Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:
SOLEPOXY ATTN: ROBERT GROELE
211 FRANKLIN ST.
OLEAN, NY 14760

4. Generator's Phone
716-372-6300

Generator's Site Address (If different than mailing):
SOLEPOXY
202 FRANKLIN ST.
OLEAN, NY 14760

A. Manifest Number: WMNA 6422002

B. State Generator's ID

5. Transporter 1 Company Name
D&H 35

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
WM OF NEW YORK AT CHAFFEE LANDFILL
10860 OLEAN RD.
CHAFFEE, NY 14030

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 716-496-5192

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. NON DOT REGULATED MATERIAL WM Profile # 118496NY					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

K. Disposal Location: Cell | Level | Grid

15. Special Handling Instructions and Additional Information
118496NY – NON HAZARDOUS SOIL & DEBRIS T24 WEIGHT IS ESTIMATED

Purchase Order # 8972 EMERGENCY CONTACT / PHONE NO.: 716-372-6300

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature	Month	Day	Year
MARK WEAVER		1	9	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
CARLOS RIVERA		1	9	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
		1	9	18

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

541354

WASTE MANAGEMENT

Chaffee LF
10860 Olean Rd
Chaffee, NY, 14030
Ph: (716) 496-5000

Original
Ticket# 541354

Customer Name SOLEPOXYINC-118496NY SOL EPOX
Ticket Date 01/09/2018
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 6422002
Destination
PO 8972
Profile 118496NY (NH SOIL AND DEBRIS)
Generator 190-SOLEPOXYINC202FRANKLIN SOLEPOXY

Carrier DH D&H EXCAVATING
Vehicle# 35
Container
Driver
Check#
Billing # 0004028
Gen EPA ID NOT REQUIRED

Volume

	Time	Scale	Operator	Inbound		
In	01/09/2018 09:45:07	INBOUND	JChapma7		Gross	70740 lb
Out	01/09/2018 10:00:05	OUTBOUND	JChapma7		Tare	29380 lb
					Net	41360 lb
					Tons	20.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil RCG-Tons	100	20.68	Tons				CHA
2	RCR-P-Regulatory C	100		%				CHA
3	EVF-P10-Environmen	100		%				CHA
4	LFS4-LANDFILL FIXE	100		%				CHA

Total Fees
Total Ticket

Driver's Signature _____ 2E4-1575

403WM

D & H
TRANSPORT
EXCAVATING, Materials, Inc.

11939 RT 98 South, Arcade, N.Y. 14009
(716) 492-4956 * Fax(716) 492-4951

DATE 1-9-18 LOAD LOCATION FRANKLIN ST OLEAN

CUSTOMER: SOLE PROXY

JOB SITE: W-M LANDFILL

DRIVER: GEORGE TRUCK # 35

EQUIPMENT:

HOURLY

START 6 AM

LUNCH: FROM _____ TO _____ [X] NO LUNCH

FINISH 12:30 PM

TOTAL

TICKET #	WEIGHT	MATERIAL	ON JOB	OFF J
541348	20 TN	DIRTY DIRT		
541461	20 TN	DIRTY DIRT		

A CHARGE WILL BE MADE FOR HOLDING TRUCK ON JOB OVER FIFTEEN MINU
OUR RESPONSIBILITY ENDS AT THE CURB

Acceptance by signature or payment of this order by the owner, contactor or his represe relieves D & H Transport Excavating, Materials, Inc., or its agents of any responsibility damage caused by moving vehicle beyond limits of improved road or right of way.

28935

CUSTOMER'S SIGNATURE

EUROFINS SPECTRUM LABORATRY REPORT AND CHAIN OF CUSTODY DOCUMENTATION FOR WASTE CHARACTERIZATION

WASTE PROFILE 118494NY

☐ Final Report
☑ Revised Report

Report Date:
27-Oct-17 12:48

Laboratory Report
SC40018

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Charles Hampton

Project: 202 Franklin St. - Olean, NY
Project #: 4884S-13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Kimberly Laplante
Quality Assurance Manager

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 48 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC40018

Project: 202 Franklin St. - Olean, NY

Project Number: 4884S-13

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC40018-01	Metal Waste-W	Soil	29-Sep-17 10:15	02-Oct-17 15:50
SC40018-02	Metal Waste-E	Soil	29-Sep-17 10:30	02-Oct-17 15:50
SC40018-03	Metal Waste-W-Comp	Soil	29-Sep-17 00:00	02-Oct-17 15:50
SC40018-04	Metal Waste-E-Comp	Soil	29-Sep-17 00:00	02-Oct-17 15:50

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

Sample Compositing Narrative:

Sample SC40018-03 Container A was composited on October 05, 2017 per client request from: SC40018-01 Container D 120.65g; SC40018-01 Container E 121.18g; SC40018-01 Container F 120.71g.

Sample Compositing Narrative:

Sample SC40018-04 Container A was composited on October 05, 2017 per client request from: SC40018-02 Container D 120.26g; SC40018-02 Container E 120.58g; SC40018-02 Container F 120.17g.

Sample Compositing Narrative:

Sample SC40018-03RE1 Container A was composited on October 24, 2017 per client request from: SC40018-01 Container D 50.37g; SC40018-01 Container E 49.86g; SC40018-01 Container F 50.12g.
°

October 27, 2017 Report Revision Case Narrative:

This report has been revised to include analyses added as listed in the appendix at the end of this report.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW6010C

Laboratory Control Samples:

BZ15936-LCS

[Undefined]

Arsenic
Cadmium
Chromium

Some LCS recoveries were below acceptance criteria, MS recoveries were within criteria for these elements; a significant bias is not suspected.

Barium
Lead
Selenium
Silver

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Arsenic
Cadmium
Chromium

BZ15936-BLK

Some LCS recoveries were below acceptance criteria, MS recoveries were within criteria for these elements; a significant bias is not suspected.

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

BZ15936-DUP

Some LCS recoveries were below acceptance criteria, MS recoveries were within criteria for these elements; a significant bias is not suspected.

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

BZ15936-MS

Some LCS recoveries were below acceptance criteria, MS recoveries were within criteria for these elements; a significant bias is not suspected.

Arsenic
Barium
Cadmium
Chromium
Lead
Selenium
Silver

SW8081B

BZ15917-MS

This parameter is outside laboratory rpd specified recovery limits.

4,4' -DDT
a-Chlordane
Endosulfan II

BZ15917-MSD

This parameter is outside laboratory rpd specified recovery limits.

4,4' -DDT
a-Chlordane
Endosulfan II

SW8151A

BZ16866-MS

This parameter is outside laboratory rpd specified recovery limits.

Dalapon

BZ16866-MSD

This parameter is outside laboratory rpd specified recovery limits.

Dalapon

SW846 1030

Samples:

SC40018-03 *Metal Waste-W-Comp*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC40018-04 *Metal Waste-E-Comp*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1710003

This affected the following samples:

1717335-BLK1
1717335-BS1
1717335-BSD1
Metal Waste-E
Metal Waste-W
S708708-ICV1
S709003-CCV1

Laboratory Control Samples:

1717335 BS/BSD

2,2-Dichloropropane percent recoveries (64/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E
Metal Waste-W

Acetone percent recoveries (131/128) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Metal Waste-E
Metal Waste-W

Bromoform percent recoveries (69/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E
Metal Waste-W

Tert-amyl methyl ether percent recoveries (133/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Metal Waste-E
Metal Waste-W

trans-1,4-Dichloro-2-butene percent recoveries (62/66) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E
Metal Waste-W

Samples:

S709003-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-20.1%)
2,2-Dichloropropane (-35.8%)
Bromoform (-30.7%)
Methyl tert-butyl ether (-23.8%)
Tert-amyl methyl ether (33.1%)
Tert-Butanol / butyl alcohol (-23.5%)
trans-1,3-Dichloropropene (-25.1%)
Vinyl chloride (27.3%)

SW846 8260C

Samples:

S709003-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-27.3%)
Acetone (30.8%)
Naphthalene (-24.6%)
trans-1,4-Dichloro-2-butene (-38.4%)

This affected the following samples:

1717335-BLK1
1717335-BS1
1717335-BSD1
Metal Waste-E
Metal Waste-W

SC40018-02 *Metal Waste-E*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SW846 8270D

Calibration:

1709033

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Benzoic acid
Carbazole

This affected the following samples:

S708282-ICV1

Laboratory Control Samples:

1717180 BS/BSD

Benzoic acid percent recoveries (11/13) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E-Comp
Metal Waste-W-Comp

Bis(2-chloroisopropyl)ether percent recoveries (38/39) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E-Comp
Metal Waste-W-Comp

Pyridine percent recoveries (41/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste-E-Comp
Metal Waste-W-Comp

Samples:

S708992-CCV1

SW846 8270D

Samples:

S708992-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
3-Nitroaniline (-21.6%)
4-Chloroaniline (-28.9%)
4-Chlorophenyl phenyl ether (27.0%)
Aniline (-29.7%)
Benzo (b) fluoranthene (24.1%)
Diethyl phthalate (27.7%)
Hexachlorocyclopentadiene (26.2%)
N-Nitrosodimethylamine (-25.4%)
Pyridine (-29.0%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Carbazole (-56.2%)

This affected the following samples:

1717180-BLK1
1717180-BS1
1717180-BSD1

S709017-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dichlorobenzene (21.4%)
2,4,5-Trichlorophenol (36.7%)
2-Chloronaphthalene (24.8%)
3,3´-Dichlorobenzidine (-23.0%)
4-Chloroaniline (-24.7%)
4-Chlorophenyl phenyl ether (29.0%)
Aniline (-33.0%)
Benzidine (-70.7%)
Benzo (b) fluoranthene (21.7%)
Bis(2-chloroethyl)ether (23.2%)
Diethyl phthalate (30.7%)
Hexachlorocyclopentadiene (31.3%)
Isophorone (-20.1%)
Pyridine (-20.3%)

This affected the following samples:

Metal Waste-E-Comp
Metal Waste-W-Comp

SC40018-03 *Metal Waste-W-Comp*

The Reporting Limit has been raised to account for matrix interference.

SC40018-04 *Metal Waste-E-Comp*

The Reporting Limit has been raised to account for matrix interference.

SW846 8270D TICS

Samples:

SC40018-03 *Metal Waste-W-Comp*

SW846 8270D TICS

Samples:

SC40018-03 *Metal Waste-W-Comp*

The Reporting Limit has been raised to account for matrix interference.

SC40018-04 *Metal Waste-E-Comp*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	Day Environmental, Inc.
Project:	202 Franklin St. - Olean, NY / 4884S-13
Work Order:	SC40018
Sample(s) received on:	10/2/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC40018-03 **Client ID:** Metal Waste-W-Comp

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	23.9		0.78	mg/Kg	SW6010C
Barium	457		0.39	mg/Kg	SW6010C
Cadmium	4.95		0.39	mg/Kg	SW6010C
Chromium	41.4		0.39	mg/Kg	SW6010C
Lead	1910		39	mg/Kg	SW6010C
Silver	0.82		0.39	mg/Kg	SW6010C
Mercury	0.10		0.03	mg/Kg	SW7471B
Lead	0.532		0.0150	mg/l	SW846 1311/6010C
Benzo (a) anthracene	2690	J, D	3640	µg/kg	SW846 8270D
Benzo (a) pyrene	2710	J, D	3640	µg/kg	SW846 8270D
Benzo (b) fluoranthene	2060	J, D	3640	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	3700	D	3640	µg/kg	SW846 8270D
Benzo (k) fluoranthene	1660	J, D	3640	µg/kg	SW846 8270D
Chrysene	2350	J, D	3640	µg/kg	SW846 8270D
Fluoranthene	3970	D	3640	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1840	J, D	3640	µg/kg	SW846 8270D
Phenanthrene	1860	J, D	3640	µg/kg	SW846 8270D
Pyrene	4300	D	3640	µg/kg	SW846 8270D

Lab ID: SC40018-04 **Client ID:** Metal Waste-E-Comp

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	84.3		0.68	mg/Kg	SW6010C
Barium	749		0.34	mg/Kg	SW6010C
Cadmium	3.89		0.34	mg/Kg	SW6010C
Chromium	36.1		0.34	mg/Kg	SW6010C
Lead	3300		34	mg/Kg	SW6010C
Silver	0.63		0.34	mg/Kg	SW6010C
Mercury	0.47		0.03	mg/Kg	SW7471B
Lead	2.61		0.0150	mg/l	SW846 1311/6010C
Benzo (a) pyrene	913	J, D	1470	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1680	D	1470	µg/kg	SW846 8270D
Chrysene	751	J, D	1470	µg/kg	SW846 8270D
Fluoranthene	803	J, D	1470	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	677	J, D	1470	µg/kg	SW846 8270D
Phenanthrene	832	J, D	1470	µg/kg	SW846 8270D
Pyrene	847	J, D	1470	µg/kg	SW846 8270D

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W	4884S-13	Soil	29-Sep-17 10:15	02-Oct-17
SC40018-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1717009	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 8.23 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.90	U	µg/kg dry	3.90	1.98	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
67-64-1	Acetone	< 39.0	U	µg/kg dry	39.0	15.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.90	U	µg/kg dry	3.90	3.75	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.90	U	µg/kg dry	3.90	1.03	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.90	U	µg/kg dry	3.90	1.04	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.90	U	µg/kg dry	3.90	1.97	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.90	U	µg/kg dry	3.90	2.60	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.90	U	µg/kg dry	3.90	3.72	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 7.81	U	µg/kg dry	7.81	3.53	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.81	U	µg/kg dry	7.81	6.98	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.90	U	µg/kg dry	3.90	1.12	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.90	U	µg/kg dry	3.90	0.71	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.90	U	µg/kg dry	3.90	0.87	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.81	U	µg/kg dry	7.81	2.50	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.90	U	µg/kg dry	3.90	3.19	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.90	U	µg/kg dry	3.90	1.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 7.81	U	µg/kg dry	7.81	2.17	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.90	U	µg/kg dry	3.90	2.10	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 7.81	U	µg/kg dry	7.81	1.61	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.90	U	µg/kg dry	3.90	0.97	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.90	U	µg/kg dry	3.90	0.92	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.81	U	µg/kg dry	7.81	5.64	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.90	U	µg/kg dry	3.90	2.65	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.90	U	µg/kg dry	3.90	2.62	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.90	U	µg/kg dry	3.90	2.03	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.90	U	µg/kg dry	3.90	1.02	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.90	U	µg/kg dry	3.90	0.85	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.90	U	µg/kg dry	3.90	1.16	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 7.81	U	µg/kg dry	7.81	1.48	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.90	U	µg/kg dry	3.90	1.02	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.90	U	µg/kg dry	3.90	1.40	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.90	U	µg/kg dry	3.90	2.04	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.90	U	µg/kg dry	3.90	1.45	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.90	U	µg/kg dry	3.90	2.07	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.90	U	µg/kg dry	3.90	2.05	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.90	U	µg/kg dry	3.90	2.02	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.90	U	µg/kg dry	3.90	1.84	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.90	U	µg/kg dry	3.90	1.26	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.90	U	µg/kg dry	3.90	2.35	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.90	U	µg/kg dry	3.90	2.05	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W	4884S-13	Soil	29-Sep-17 10:15	02-Oct-17
SC40018-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 8.23 g							
100-41-4	Ethylbenzene	< 3.90	U	µg/kg dry	3.90	0.56	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
87-68-3	Hexachlorobutadiene	< 3.90	U	µg/kg dry	3.90	1.96	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 7.81	U	µg/kg dry	7.81	4.79	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.90	U	µg/kg dry	3.90	0.77	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.90	U	µg/kg dry	3.90	0.84	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.90	U	µg/kg dry	3.90	1.44	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 7.81	U	µg/kg dry	7.81	2.01	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 7.81	U	µg/kg dry	7.81	1.55	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.90	U	µg/kg dry	3.90	2.32	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.90	U	µg/kg dry	3.90	0.63	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.90	U	µg/kg dry	3.90	0.78	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.90	U	µg/kg dry	3.90	3.32	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.90	U	µg/kg dry	3.90	3.30	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.90	U	µg/kg dry	3.90	1.34	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.90	U	µg/kg dry	3.90	1.26	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.90	U	µg/kg dry	3.90	1.37	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.90	U	µg/kg dry	3.90	2.88	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.90	U	µg/kg dry	3.90	1.23	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.90	U	µg/kg dry	3.90	1.30	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.90	U	µg/kg dry	3.90	2.83	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.90	U	µg/kg dry	3.90	1.07	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.90	U	µg/kg dry	3.90	2.10	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.90	U	µg/kg dry	3.90	2.93	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.90	U	µg/kg dry	3.90	0.95	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.90	U	µg/kg dry	3.90	0.67	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.90	U	µg/kg dry	3.90	1.32	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.81	U	µg/kg dry	7.81	0.70	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.90	U	µg/kg dry	3.90	1.09	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.81	U	µg/kg dry	7.81	6.15	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.90	U	µg/kg dry	3.90	3.54	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.90	U	µg/kg dry	3.90	1.30	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.90	U	µg/kg dry	3.90	2.10	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.90	U	µg/kg dry	3.90	0.73	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 39.0	U	µg/kg dry	39.0	25.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 78.1	U	µg/kg dry	78.1	67.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 19.5	U	µg/kg dry	19.5	8.91	1	"	"	"	"	"	X
64-17-5	Ethanol	< 781	U	µg/kg dry	781	146	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*88*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*94*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*127*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W SC40018-01	4884S-13	Soil	29-Sep-17 10:15	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 8.23 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717335	
General Chemistry Parameters													
	% Solids	**90.3**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716984	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E	4884S-13	Soil	29-Sep-17 10:30	02-Oct-17
SC40018-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1717009	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 10.26 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.51	U	µg/kg dry	3.51	1.78	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
67-64-1	Acetone	< 35.1	U	µg/kg dry	35.1	14.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.51	U	µg/kg dry	3.51	3.37	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.51	U	µg/kg dry	3.51	0.93	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.51	U	µg/kg dry	3.51	0.94	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.51	U	µg/kg dry	3.51	1.77	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.51	U	µg/kg dry	3.51	2.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.51	U	µg/kg dry	3.51	3.35	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 7.02	U	µg/kg dry	7.02	3.17	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.02	U	µg/kg dry	7.02	6.27	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.51	U	µg/kg dry	3.51	1.00	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.51	U	µg/kg dry	3.51	0.64	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.51	U	µg/kg dry	3.51	0.79	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.02	U	µg/kg dry	7.02	2.25	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.51	U	µg/kg dry	3.51	2.87	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.51	U	µg/kg dry	3.51	1.10	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 7.02	U	µg/kg dry	7.02	1.95	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.51	U	µg/kg dry	3.51	1.88	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 7.02	U	µg/kg dry	7.02	1.45	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.51	U	µg/kg dry	3.51	0.87	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.51	U	µg/kg dry	3.51	0.82	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.02	U	µg/kg dry	7.02	5.07	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.51	U	µg/kg dry	3.51	2.38	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.51	U	µg/kg dry	3.51	2.35	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.51	U	µg/kg dry	3.51	1.82	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.51	U	µg/kg dry	3.51	0.91	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.51	U	µg/kg dry	3.51	0.76	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.51	U	µg/kg dry	3.51	1.04	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 7.02	U	µg/kg dry	7.02	1.33	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.51	U	µg/kg dry	3.51	0.92	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.51	U	µg/kg dry	3.51	1.26	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.51	U	µg/kg dry	3.51	1.83	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.51	U	µg/kg dry	3.51	1.30	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.51	U	µg/kg dry	3.51	1.86	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.51	U	µg/kg dry	3.51	1.84	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.51	U	µg/kg dry	3.51	1.82	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.51	U	µg/kg dry	3.51	1.66	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.51	U	µg/kg dry	3.51	1.13	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.51	U	µg/kg dry	3.51	2.12	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.51	U	µg/kg dry	3.51	1.84	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E	4884S-13	Soil	29-Sep-17 10:30	02-Oct-17
SC40018-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 10.26 g							
100-41-4	Ethylbenzene	< 3.51	U	µg/kg dry	3.51	0.51	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
87-68-3	Hexachlorobutadiene	< 3.51	U	µg/kg dry	3.51	1.76	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 7.02	U	µg/kg dry	7.02	4.30	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.51	U	µg/kg dry	3.51	0.69	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.51	U	µg/kg dry	3.51	0.75	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.51	U	µg/kg dry	3.51	1.29	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 7.02	U	µg/kg dry	7.02	1.80	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 7.02	U	µg/kg dry	7.02	1.39	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.51	U	µg/kg dry	3.51	2.09	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.51	U	µg/kg dry	3.51	0.57	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.51	U	µg/kg dry	3.51	0.71	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.51	U	µg/kg dry	3.51	2.98	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.51	U	µg/kg dry	3.51	2.97	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.51	U	µg/kg dry	3.51	1.20	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.51	U	µg/kg dry	3.51	1.14	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.51	U	µg/kg dry	3.51	1.23	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.51	U	µg/kg dry	3.51	2.59	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.51	U	µg/kg dry	3.51	1.10	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.51	U	µg/kg dry	3.51	1.16	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.51	U	µg/kg dry	3.51	2.54	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.51	U	µg/kg dry	3.51	0.96	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.51	U	µg/kg dry	3.51	1.89	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.51	U	µg/kg dry	3.51	2.63	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.51	U	µg/kg dry	3.51	0.85	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.51	U	µg/kg dry	3.51	0.60	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.51	U	µg/kg dry	3.51	1.19	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.02	U	µg/kg dry	7.02	0.63	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.51	U	µg/kg dry	3.51	0.98	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.02	U	µg/kg dry	7.02	5.53	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.51	U	µg/kg dry	3.51	3.18	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.51	U	µg/kg dry	3.51	1.17	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.51	U	µg/kg dry	3.51	1.89	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.51	U	µg/kg dry	3.51	0.65	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 35.1	U	µg/kg dry	35.1	23.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 70.2	U	µg/kg dry	70.2	60.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 17.5	U	µg/kg dry	17.5	8.01	1	"	"	"	"	"	X
64-17-5	Ethanol	< 702	U	µg/kg dry	702	131	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*84*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*92*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*142*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E SC40018-02	4884S-13	Soil	29-Sep-17 10:30	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 10.26 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717335	
General Chemistry Parameters													
	% Solids	**87.4**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716984	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40018-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546			R01										
83-32-9	Acenaphthene	< 3640	U, D	µg/kg dry	3640	1810	50	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
208-96-8	Acenaphthylene	< 3640	U, D	µg/kg dry	3640	1800	50	"	"	"	"	"	X
62-53-3	Aniline	< 18000	U, D	µg/kg dry	18000	1290	50	"	"	"	"	"	X
120-12-7	Anthracene	< 3640	U, D	µg/kg dry	3640	1740	50	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 18000	U, D	µg/kg dry	18000	1770	50	"	"	"	"	"	
92-87-5	Benzidine	< 18000	U, D	µg/kg dry	18000	3630	50	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**2,690**	J, D	µg/kg dry	3640	1920	50	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**2,710**	J, D	µg/kg dry	3640	1360	50	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**2,060**	J, D	µg/kg dry	3640	1760	50	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**3,700**	D	µg/kg dry	3640	1460	50	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**1,660**	J, D	µg/kg dry	3640	1430	50	"	"	"	"	"	X
65-85-0	Benzoic acid	< 18000	U, D	µg/kg dry	18000	3780	50	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 18000	U, D	µg/kg dry	18000	1480	50	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 18000	U, D	µg/kg dry	18000	1600	50	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 9120	U, D	µg/kg dry	9120	1310	50	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 9120	U, D	µg/kg dry	9120	1400	50	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 9120	U, D	µg/kg dry	9120	2250	50	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 18000	U, D	µg/kg dry	18000	1690	50	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 18000	U, D	µg/kg dry	18000	2100	50	"	"	"	"	"	X
86-74-8	Carbazole	< 9120	U, D	µg/kg dry	9120	5090	50	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 18000	U, D	µg/kg dry	18000	1720	50	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 9120	U, D	µg/kg dry	9120	1970	50	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 18000	U, D	µg/kg dry	18000	1670	50	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 9120	U, D	µg/kg dry	9120	1620	50	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 18000	U, D	µg/kg dry	18000	2140	50	"	"	"	"	"	X
218-01-9	Chrysene	**2,350**	J, D	µg/kg dry	3640	1820	50	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3640	U, D	µg/kg dry	3640	1400	50	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 9120	U, D	µg/kg dry	9120	1390	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 18000	U, D	µg/kg dry	18000	1570	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 18000	U, D	µg/kg dry	18000	1570	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 18000	U, D	µg/kg dry	18000	1670	50	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 18000	U, D	µg/kg dry	18000	2740	50	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 9120	U, D	µg/kg dry	9120	1710	50	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 18000	U, D	µg/kg dry	18000	2230	50	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 18000	U, D	µg/kg dry	18000	1970	50	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 18000	U, D	µg/kg dry	18000	1290	50	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 18000	U, D	µg/kg dry	18000	1910	50	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 18000	U, D	µg/kg dry	18000	2310	50	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 18000	U, D	µg/kg dry	18000	1840	50	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 9120	U, D	µg/kg dry	9120	3530	50	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 9120	U, D	µg/kg dry	9120	2050	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40018-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
117-84-0	Di-n-octyl phthalate	< 18000	U, D	µg/kg dry	18000	2040	50	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
206-44-0	Fluoranthene	**3,970**	D	µg/kg dry	3640	1920	50	"	"	"	"	"	X
86-73-7	Fluorene	< 3640	U, D	µg/kg dry	3640	1850	50	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 9120	U, D	µg/kg dry	9120	1800	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 9120	U, D	µg/kg dry	9120	2180	50	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 9120	U, D	µg/kg dry	9120	1240	50	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 9120	U, D	µg/kg dry	9120	1970	50	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**1,840**	J, D	µg/kg dry	3640	1310	50	"	"	"	"	"	X
78-59-1	Isophorone	< 9120	U, D	µg/kg dry	9120	1710	50	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 3640	U, D	µg/kg dry	3640	2200	50	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 18000	U, D	µg/kg dry	18000	1530	50	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 18000	U, D	µg/kg dry	18000	1740	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 3640	U, D	µg/kg dry	3640	1700	50	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 18000	U, D	µg/kg dry	18000	1530	50	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 18000	U, D	µg/kg dry	18000	2460	50	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 9120	U, D	µg/kg dry	9120	2810	50	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 9120	U, D	µg/kg dry	9120	1660	50	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 9120	U, D	µg/kg dry	9120	1510	50	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 72100	U, D	µg/kg dry	72100	2910	50	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 9120	U, D	µg/kg dry	9120	1690	50	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 9120	U, D	µg/kg dry	9120	1780	50	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 18000	U, D	µg/kg dry	18000	1950	50	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 18000	U, D	µg/kg dry	18000	1930	50	"	"	"	"	"	X
85-01-8	Phenanthrene	**1,860**	J, D	µg/kg dry	3640	1700	50	"	"	"	"	"	X
108-95-2	Phenol	< 18000	U, D	µg/kg dry	18000	1190	50	"	"	"	"	"	X
129-00-0	Pyrene	**4,300**	D	µg/kg dry	3640	2030	50	"	"	"	"	"	X
110-86-1	Pyridine	< 18000	U, D	µg/kg dry	18000	2690	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 18000	U, D	µg/kg dry	18000	1790	50	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3640	U, D	µg/kg dry	3640	1790	50	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 18000	U, D	µg/kg dry	18000	1620	50	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 9120	U, D	µg/kg dry	9120	1630	50	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 18000	U, D	µg/kg dry	18000	2850	50	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 18000	U, D	µg/kg dry	18000	1750	50	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*62*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*37*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*57*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*39*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*60*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*41*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds			R01										
	Tentatively Identified Compounds	**None found**		µg/kg dry			50	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W-Comp SC40018-03	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 20.9	U	µg/kg dry	20.9	9.36	1	SW846 8082A	10-Oct-17	11-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 20.9	U	µg/kg dry	20.9	11.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 20.9	U	µg/kg dry	20.9	10.5	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 20.9	U	µg/kg dry	20.9	20.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 20.9	U	µg/kg dry	20.9	19.1	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 20.9	U	µg/kg dry	20.9	13.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 20.9	U	µg/kg dry	20.9	11.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 20.9	U	µg/kg dry	20.9	18.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 20.9	U	µg/kg dry	20.9	9.42	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*60*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*65*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	24-Oct-17		CMB	1718056	X
	Final pH of leachate	**5.13**		N/A			1	"	"	"	"	"	
Prepared by method SW846 3010A													
7439-92-1	Lead	**0.532**		mg/l	0.0150	0.0059	1	SW846 1311/6010C	25-Oct-17	26-Oct-17	JLC	1718100	X
General Chemistry Parameters													
Sample Compositing Fee													
	Sample Prep	**Completed**		N/A			1	SAI SOP	05-Oct-17		BD	1717010	
Re-analysis of Sample Compositing Fee													
	Sample Prep	**Completed**		N/A			1	SAI SOP	24-Oct-17		BD	1718059	
	% Solids	**91.3**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1717019	
Toxicity Characteristics													
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	05-Oct-17 15:30	06-Oct-17 12:30	BD	1717013	X
	pH	**7.22**	pH	pH Units			1	SW846 9045D	05-Oct-17 14:30	05-Oct-17 16:55	BD	1716875	X
Reactivity Cyanide/Sulfide													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	06-Oct-17	06-Oct-17	TN	1717083	
57-12-5	Reactive Cyanide	< 24.2	U	mg/kg dry	24.2	24.2	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.4	U	mg/kg dry	48.4	48.4	1	"	"	"	"	"	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404431-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-38-2	Arsenic	**23.9**		mg/Kg	0.78	0.78	1	SW6010C	05-Oct-17	10-Oct-17 03:44	11301	404431A	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40018-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-39-3	Barium	**457**		mg/Kg	0.39	0.39	1	SW6010C	05-Oct-17	06-Oct-17 21:54	11301	404431A	
7440-43-9	Cadmium	**4.95**		mg/Kg	0.39	0.39	1	"	"	10-Oct-17 03:44	"	"	
7440-47-3	Chromium	**41.4**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7439-92-1	Lead	**1,910**		mg/Kg	39	39	100	"	"	10-Oct-17 04:05	"	"	
7782-49-2	Selenium	< 1.6		mg/Kg	1.6	1.6	1	"	"	10-Oct-17 03:44	"	"	
7440-22-4	Silver	**0.82**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
Prepared by method 404534-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7439-97-6	Mercury	**0.10**		mg/Kg	0.03	0.03	1	SW7471B	09-Oct-17	09-Oct-17 09:07	11301	404534A	
Subcontracted Analyses													
Prepared by method 404584-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.3		ug/Kg	2.3	2.3	2	SW8081B	06-Oct-17	09-Oct-17 18:56	11301	404584A	
72-55-9	4,4' -DDE	< 2.3		ug/Kg	2.3	2.3	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.3		ug/Kg	2.3	2.3	2	"	"	"	"	"	
319-84-6	a-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
319-85-7	b-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
57-74-9	Chlordane	< 38		ug/Kg	38	38	2	"	"	"	"	"	
319-86-8	d-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
72-20-8	Endrin	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.5		ug/Kg	1.5	1.5	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
76-44-8	Heptachlor	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 38		ug/Kg	38	38	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 150		ug/Kg	150	150	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*74*			*30-150 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*78*			*30-150 %*			"	"	"	"	"	
Subcontracted Analyses													
Prepared by method 404600-													
Methylation date: 06-Oct-17													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-W-Comp SC40018-03	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404600-										Methylation date: 06-Oct-17			
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
93-76-5	2,4,5-T	< 96		ug/Kg	96	96	10	SW8151A	06-Oct-17	09-Oct-17 19:43	11301	404600A	
93-72-1	2,4,5-TP (Silvex)	< 96		ug/Kg	96	96	10	"	"	"	"	"	
94-75-7	2,4-D	< 190		ug/Kg	190	190	10	"	"	"	"	"	
94-82-6	2,4-DB	< 1900		ug/Kg	1900	1900	10	"	"	"	"	"	
75-99-0	Dalapon	< 96		ug/Kg	96	96	10	"	"	"	"	"	
1918-00-9	Dicamba	< 96		ug/Kg	96	96	10	"	"	"	"	"	
120-36-5	Dichloroprop	< 190		ug/Kg	190	190	10	"	"	"	"	"	
88-85-7	Dinoseb	< 190		ug/Kg	190	190	10	"	"	"	"	"	
Surrogate recoveries:													
19719-28-9	*% DCAA*	*35*			*30-150 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**87**		%			1	SW846-%Solid	29-Sep-17	05-Oct-17 22:13	11301	'[none]'	

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds Prepared by method SW846 3546 — R01

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
83-32-9	Acenaphthene	< 1470	U, D	µg/kg dry	1470	733	20	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
208-96-8	Acenaphthylene	< 1470	U, D	µg/kg dry	1470	727	20	"	"	"	"	"	X
62-53-3	Aniline	< 7290	U, D	µg/kg dry	7290	524	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1470	U, D	µg/kg dry	1470	705	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7290	U, D	µg/kg dry	7290	717	20	"	"	"	"	"	
92-87-5	Benzidine	< 7290	U, D	µg/kg dry	7290	1470	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1470	U, D	µg/kg dry	1470	778	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**913**	J, D	µg/kg dry	1470	549	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1470	U, D	µg/kg dry	1470	714	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**1,680**	D	µg/kg dry	1470	592	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1470	U, D	µg/kg dry	1470	577	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7290	U, D	µg/kg dry	7290	1530	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7290	U, D	µg/kg dry	7290	597	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7290	U, D	µg/kg dry	7290	647	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 3690	U, D	µg/kg dry	3690	528	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 3690	U, D	µg/kg dry	3690	568	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 3690	U, D	µg/kg dry	3690	910	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7290	U, D	µg/kg dry	7290	683	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7290	U, D	µg/kg dry	7290	851	20	"	"	"	"	"	X
86-74-8	Carbazole	< 3690	U, D	µg/kg dry	3690	2060	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7290	U, D	µg/kg dry	7290	696	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 3690	U, D	µg/kg dry	3690	798	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7290	U, D	µg/kg dry	7290	674	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 3690	U, D	µg/kg dry	3690	656	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7290	U, D	µg/kg dry	7290	866	20	"	"	"	"	"	X
218-01-9	Chrysene	**751**	J, D	µg/kg dry	1470	736	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1470	U, D	µg/kg dry	1470	566	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 3690	U, D	µg/kg dry	3690	561	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7290	U, D	µg/kg dry	7290	636	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7290	U, D	µg/kg dry	7290	636	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7290	U, D	µg/kg dry	7290	676	20	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 7290	U, D	µg/kg dry	7290	1110	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 3690	U, D	µg/kg dry	3690	690	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7290	U, D	µg/kg dry	7290	901	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7290	U, D	µg/kg dry	7290	798	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7290	U, D	µg/kg dry	7290	521	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7290	U, D	µg/kg dry	7290	773	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7290	U, D	µg/kg dry	7290	936	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7290	U, D	µg/kg dry	7290	742	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 3690	U, D	µg/kg dry	3690	1430	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 3690	U, D	µg/kg dry	3690	831	20	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
117-84-0	Di-n-octyl phthalate	< 7290	U, D	µg/kg dry	7290	824	20	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
206-44-0	Fluoranthene	**803**	J, D	µg/kg dry	1470	779	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1470	U, D	µg/kg dry	1470	749	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 3690	U, D	µg/kg dry	3690	726	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3690	U, D	µg/kg dry	3690	881	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 3690	U, D	µg/kg dry	3690	501	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 3690	U, D	µg/kg dry	3690	795	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**677**	J, D	µg/kg dry	1470	530	20	"	"	"	"	"	X
78-59-1	Isophorone	< 3690	U, D	µg/kg dry	3690	691	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1470	U, D	µg/kg dry	1470	890	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7290	U, D	µg/kg dry	7290	620	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7290	U, D	µg/kg dry	7290	705	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1470	U, D	µg/kg dry	1470	687	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7290	U, D	µg/kg dry	7290	619	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7290	U, D	µg/kg dry	7290	996	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 3690	U, D	µg/kg dry	3690	1140	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 3690	U, D	µg/kg dry	3690	672	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 3690	U, D	µg/kg dry	3690	612	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 29200	U, D	µg/kg dry	29200	1180	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 3690	U, D	µg/kg dry	3690	685	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 3690	U, D	µg/kg dry	3690	718	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7290	U, D	µg/kg dry	7290	791	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7290	U, D	µg/kg dry	7290	779	20	"	"	"	"	"	X
85-01-8	Phenanthrene	**832**	J, D	µg/kg dry	1470	686	20	"	"	"	"	"	X
108-95-2	Phenol	< 7290	U, D	µg/kg dry	7290	480	20	"	"	"	"	"	X
129-00-0	Pyrene	**847**	J, D	µg/kg dry	1470	822	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7290	U, D	µg/kg dry	7290	1090	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7290	U, D	µg/kg dry	7290	722	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1470	U, D	µg/kg dry	1470	725	20	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 7290	U, D	µg/kg dry	7290	656	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 3690	U, D	µg/kg dry	3690	658	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7290	U, D	µg/kg dry	7290	1150	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7290	U, D	µg/kg dry	7290	707	20	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*36*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*27*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*34*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*29*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*36*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*28*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds			R01										
	Tentatively Identified Compounds	**None found**		µg/kg dry			20	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40018-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.9	U	µg/kg dry	21.9	9.83	1	SW846 8082A	10-Oct-17	11-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 21.9	U	µg/kg dry	21.9	11.7	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 21.9	U	µg/kg dry	21.9	11.0	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.9	U	µg/kg dry	21.9	21.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.9	U	µg/kg dry	21.9	20.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.9	U	µg/kg dry	21.9	14.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.9	U	µg/kg dry	21.9	11.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.9	U	µg/kg dry	21.9	19.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.9	U	µg/kg dry	21.9	9.89	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*65*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*90*			*30-150 %*			"	"	"	"	"	
TCLP Metals by EPA 1311 & 6000/7000 Series Methods													
TCLP Extraction for Metals Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	24-Oct-17		CMB	1718056	X
	Final pH of leachate	**5.66**		N/A			1	"	"	"	"	"	
Prepared by method SW846 3010A													
7439-92-1	Lead	**2.61**		mg/l	0.0150	0.0059	1	SW846 1311/6010C	25-Oct-17	26-Oct-17	JLC	1718100	X
General Chemistry Parameters													
	Sample Prep	**Completed**		N/A			1	SAI SOP	05-Oct-17		BD	1717010	
	% Solids	**89.8**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1717019	
Toxicity Characteristics													
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	05-Oct-17 15:30	06-Oct-17 12:30	BD	1717013	X
	pH	**7.27**	pH	pH Units			1	SW846 9045D	05-Oct-17 14:30	05-Oct-17 16:57	BD	1716875	X
Reactivity Cyanide/Sulfide													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	06-Oct-17	06-Oct-17	TN	1717083	
57-12-5	Reactive Cyanide	< 23.3	U	mg/kg dry	23.3	23.3	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 46.7	U	mg/kg dry	46.7	46.7	1	"	"	"	"	"	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404431-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-38-2	Arsenic	**84.3**		mg/Kg	0.68	0.68	1	SW6010C	05-Oct-17	10-Oct-17 03:47	11301	404431A	
7440-39-3	Barium	**749**		mg/Kg	0.34	0.34	1	"	"	06-Oct-17 21:57	"	"	
7440-43-9	Cadmium	**3.89**		mg/Kg	0.34	0.34	1	"	"	10-Oct-17 03:47	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40018-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-47-3	Chromium	**36.1**		mg/Kg	0.34	0.34	1	SW6010C	05-Oct-17	10-Oct-17 03:47	11301	404431A	
7439-92-1	Lead	**3,300**		mg/Kg	34	34	100	"	"	10-Oct-17 04:08	"	"	
7782-49-2	Selenium	< 1.4		mg/Kg	1.4	1.4	1	"	"	10-Oct-17 03:47	"	"	
7440-22-4	Silver	**0.63**		mg/Kg	0.34	0.34	1	"	"	"	"	"	
Prepared by method 404534-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7439-97-6	Mercury	**0.47**		mg/Kg	0.03	0.03	1	SW7471B	09-Oct-17	09-Oct-17 09:10	11301	404534A	
Subcontracted Analyses													
Prepared by method 404584-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.3		ug/Kg	2.3	2.3	2	SW8081B	06-Oct-17	10-Oct-17 13:07	11301	404584A	
72-55-9	4,4' -DDE	< 2.3		ug/Kg	2.3	2.3	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 7.0		ug/Kg	7.0	7.0	2	"	"	"	"	"	
319-84-6	a-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
319-85-7	b-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
57-74-9	Chlordane	< 38		ug/Kg	38	38	2	"	"	"	"	"	
319-86-8	d-BHC	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
72-20-8	Endrin	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.5		ug/Kg	1.5	1.5	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
76-44-8	Heptachlor	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 7.5		ug/Kg	7.5	7.5	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 38		ug/Kg	38	38	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 150		ug/Kg	150	150	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*101*			*30-150 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*85*			*30-150 %*			"	"	"	"	"	
Subcontracted Analyses													
Prepared by method 404600-									Methylation date: 06-Oct-17				
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
93-76-5	2,4,5-T	< 94		ug/Kg	94	94	10	SW8151A	"	09-Oct-17 20:02	11301	404600A	
93-72-1	2,4,5-TP (Silvex)	< 94		ug/Kg	94	94	10	"	"	"	"	"	
94-75-7	2,4-D	< 190		ug/Kg	190	190	10	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste-E-Comp SC40018-04	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
									Methylation date: 06-Oct-17				
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
94-82-6	2,4-DB	< 1900		ug/Kg	1900	1900	10	SW8151A	06-Oct-17	09-Oct-17 20:02	11301	404600A	
75-99-0	Dalapon	< 94		ug/Kg	94	94	10	"	"	"	"	"	
1918-00-9	Dicamba	< 94		ug/Kg	94	94	10	"	"	"	"	"	
120-36-5	Dichloroprop	< 190		ug/Kg	190	190	10	"	"	"	"	"	
88-85-7	Dinoseb	< 190		ug/Kg	190	190	10	"	"	"	"	"	
Surrogate recoveries:													
19719-28-9	*% DCAA*	*40*			*30-150 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**88**		%			1	SW846-%Solid	29-Sep-17	05-Oct-17 22:13	11301	'[none]'	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*46.2*		µg/kg		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*64.9*		µg/kg		*50.0*		*130*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/kg		*50.0*		*102*	*70-130*		
LCS (1717335-BS1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.2**		µg/kg		20.0		91	70-130		
Acetone	**26.2**		µg/kg		20.0		131	70-130		
Acrylonitrile	**20.6**		µg/kg		20.0		103	70-130		
Benzene	**19.7**		µg/kg		20.0		99	70-130		
Bromobenzene	**17.3**		µg/kg		20.0		86	70-130		
Bromochloromethane	**18.5**		µg/kg		20.0		92	70-130		
Bromodichloromethane	**19.7**		µg/kg		20.0		99	70-130		
Bromoform	**13.8**	QM9	µg/kg		20.0		69	70-130		
Bromomethane	**22.7**		µg/kg		20.0		113	70-130		
2-Butanone (MEK)	**20.0**		µg/kg		20.0		100	70-130		
n-Butylbenzene	**21.4**		µg/kg		20.0		107	70-130		
sec-Butylbenzene	**17.8**		µg/kg		20.0		89	70-130		
tert-Butylbenzene	**17.2**		µg/kg		20.0		86	70-130		
Carbon disulfide	**18.9**		µg/kg		20.0		95	70-130		
Carbon tetrachloride	**16.8**		µg/kg		20.0		84	70-130		
Chlorobenzene	**18.4**		µg/kg		20.0		92	70-130		
Chloroethane	**23.0**		µg/kg		20.0		115	70-130		
Chloroform	**20.1**		µg/kg		20.0		100	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS (1717335-BS1)					Prepared & Analyzed: 12-Oct-17					
Chloromethane	**22.0**		µg/kg		20.0		110	70-130		
2-Chlorotoluene	**18.4**		µg/kg		20.0		92	70-130		
4-Chlorotoluene	**19.5**		µg/kg		20.0		98	70-130		
1,2-Dibromo-3-chloropropane	**16.0**		µg/kg		20.0		80	70-130		
Dibromochloromethane	**17.2**		µg/kg		20.0		86	70-130		
1,2-Dibromoethane (EDB)	**18.4**		µg/kg		20.0		92	70-130		
Dibromomethane	**20.5**		µg/kg		20.0		102	70-130		
1,2-Dichlorobenzene	**19.5**		µg/kg		20.0		97	70-130		
1,3-Dichlorobenzene	**17.5**		µg/kg		20.0		87	70-130		
1,4-Dichlorobenzene	**19.3**		µg/kg		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	**19.4**		µg/kg		20.0		97	70-130		
1,1-Dichloroethane	**20.6**		µg/kg		20.0		103	70-130		
1,2-Dichloroethane	**21.8**		µg/kg		20.0		109	70-130		
1,1-Dichloroethene	**20.5**		µg/kg		20.0		103	70-130		
cis-1,2-Dichloroethene	**19.4**		µg/kg		20.0		97	70-130		
trans-1,2-Dichloroethene	**18.3**		µg/kg		20.0		92	70-130		
1,2-Dichloropropane	**20.1**		µg/kg		20.0		100	70-130		
1,3-Dichloropropane	**19.6**		µg/kg		20.0		98	70-130		
2,2-Dichloropropane	**12.8**	QC2	µg/kg		20.0		64	70-130		
1,1-Dichloropropene	**18.6**		µg/kg		20.0		93	70-130		
cis-1,3-Dichloropropene	**16.1**		µg/kg		20.0		80	70-130		
trans-1,3-Dichloropropene	**15.0**		µg/kg		20.0		75	70-130		
Ethylbenzene	**18.7**		µg/kg		20.0		93	70-130		
Hexachlorobutadiene	**18.0**		µg/kg		20.0		90	70-130		
2-Hexanone (MBK)	**17.7**		µg/kg		20.0		89	70-130		
Isopropylbenzene	**18.1**		µg/kg		20.0		91	70-130		
4-Isopropyltoluene	**20.4**		µg/kg		20.0		102	70-130		
Methyl tert-butyl ether	**15.2**		µg/kg		20.0		76	70-130		
4-Methyl-2-pentanone (MIBK)	**17.4**		µg/kg		20.0		87	70-130		
Methylene chloride	**20.0**		µg/kg		20.0		100	70-130		
Naphthalene	**15.1**		µg/kg		20.0		75	70-130		
n-Propylbenzene	**18.3**		µg/kg		20.0		91	70-130		
Styrene	**17.4**		µg/kg		20.0		87	70-130		
1,1,1,2-Tetrachloroethane	**17.0**		µg/kg		20.0		85	70-130		
1,1,2,2-Tetrachloroethane	**19.3**		µg/kg		20.0		96	70-130		
Tetrachloroethene	**16.6**		µg/kg		20.0		83	70-130		
Toluene	**18.7**		µg/kg		20.0		94	70-130		
1,2,3-Trichlorobenzene	**19.9**		µg/kg		20.0		99	70-130		
1,2,4-Trichlorobenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3,5-Trichlorobenzene	**20.9**		µg/kg		20.0		104	70-130		
1,1,1-Trichloroethane	**17.4**		µg/kg		20.0		87	70-130		
1,1,2-Trichloroethane	**19.3**		µg/kg		20.0		97	70-130		
Trichloroethene	**19.0**		µg/kg		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	**23.9**		µg/kg		20.0		119	70-130		
1,2,3-Trichloropropane	**19.3**		µg/kg		20.0		97	70-130		
1,2,4-Trimethylbenzene	**19.1**		µg/kg		20.0		96	70-130		
1,3,5-Trimethylbenzene	**18.6**		µg/kg		20.0		93	70-130		
Vinyl chloride	**25.5**		µg/kg		20.0		127	70-130		
m,p-Xylene	**17.4**		µg/kg		20.0		87	70-130		
o-Xylene	**18.3**		µg/kg		20.0		91	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS (1717335-BS1)						Prepared & Analyzed: 12-Oct-17				
Tetrahydrofuran	**16.7**		µg/kg		20.0		83	70-130		
Ethyl ether	**23.3**		µg/kg		20.0		116	70-130		
Tert-amyl methyl ether	**26.6**	QC2	µg/kg		20.0		133	70-130		
Ethyl tert-butyl ether	**16.5**		µg/kg		20.0		83	70-130		
Di-isopropyl ether	**21.1**		µg/kg		20.0		105	70-130		
Tert-Butanol / butyl alcohol	**153**		µg/kg		200		77	70-130		
1,4-Dioxane	**145**		µg/kg		200		73	70-130		
trans-1,4-Dichloro-2-butene	**12.3**	QC2	µg/kg		20.0		62	70-130		
Ethanol	**428**		µg/kg		400		107	70-130		
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.3*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.6*		µg/kg		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
LCS Dup (1717335-BSD1)						Prepared & Analyzed: 12-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.8**		µg/kg		20.0		89	70-130	2	30
Acetone	**25.6**		µg/kg		20.0		128	70-130	2	30
Acrylonitrile	**21.3**		µg/kg		20.0		106	70-130	3	30
Benzene	**19.5**		µg/kg		20.0		98	70-130	1	30
Bromobenzene	**17.5**		µg/kg		20.0		88	70-130	1	30
Bromochloromethane	**18.4**		µg/kg		20.0		92	70-130	0.5	30
Bromodichloromethane	**19.6**		µg/kg		20.0		98	70-130	0.8	30
Bromoform	**14.2**		µg/kg		20.0		71	70-130	3	30
Bromomethane	**21.7**		µg/kg		20.0		109	70-130	4	30
2-Butanone (MEK)	**15.1**		µg/kg		20.0		75	70-130	28	30
n-Butylbenzene	**21.6**		µg/kg		20.0		108	70-130	1	30
sec-Butylbenzene	**17.6**		µg/kg		20.0		88	70-130	1	30
tert-Butylbenzene	**16.9**		µg/kg		20.0		84	70-130	2	30
Carbon disulfide	**18.5**		µg/kg		20.0		92	70-130	2	30
Carbon tetrachloride	**17.0**		µg/kg		20.0		85	70-130	1	30
Chlorobenzene	**18.2**		µg/kg		20.0		91	70-130	1	30
Chloroethane	**24.6**		µg/kg		20.0		123	70-130	7	30
Chloroform	**20.0**		µg/kg		20.0		100	70-130	0.4	30
Chloromethane	**22.4**		µg/kg		20.0		112	70-130	2	30
2-Chlorotoluene	**19.0**		µg/kg		20.0		95	70-130	3	30
4-Chlorotoluene	**19.3**		µg/kg		20.0		96	70-130	1	30
1,2-Dibromo-3-chloropropane	**16.8**		µg/kg		20.0		84	70-130	5	30
Dibromochloromethane	**17.2**		µg/kg		20.0		86	70-130	0.2	30
1,2-Dibromoethane (EDB)	**18.7**		µg/kg		20.0		94	70-130	2	30
Dibromomethane	**20.8**		µg/kg		20.0		104	70-130	1	30
1,2-Dichlorobenzene	**19.4**		µg/kg		20.0		97	70-130	0.3	30
1,3-Dichlorobenzene	**17.4**		µg/kg		20.0		87	70-130	0.7	30
1,4-Dichlorobenzene	**19.6**		µg/kg		20.0		98	70-130	1	30
Dichlorodifluoromethane (Freon12)	**19.9**		µg/kg		20.0		100	70-130	3	30
1,1-Dichloroethane	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2-Dichloroethane	**22.1**		µg/kg		20.0		111	70-130	1	30
1,1-Dichloroethene	**19.1**		µg/kg		20.0		96	70-130	7	30
cis-1,2-Dichloroethene	**19.1**		µg/kg		20.0		96	70-130	2	30
trans-1,2-Dichloroethene	**18.4**		µg/kg		20.0		92	70-130	0.3	30
1,2-Dichloropropane	**20.1**		µg/kg		20.0		100	70-130	0.2	30
1,3-Dichloropropane	**19.8**		µg/kg		20.0		99	70-130	1	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS Dup (1717335-BSD1)					Prepared & Analyzed: 12-Oct-17					
2,2-Dichloropropane	**12.9**	QC2	µg/kg		20.0		65	70-130	0.7	30
1,1-Dichloropropene	**18.6**		µg/kg		20.0		93	70-130	0.3	30
cis-1,3-Dichloropropene	**16.6**		µg/kg		20.0		83	70-130	3	30
trans-1,3-Dichloropropene	**15.4**		µg/kg		20.0		77	70-130	3	30
Ethylbenzene	**18.7**		µg/kg		20.0		94	70-130	0.2	30
Hexachlorobutadiene	**17.8**		µg/kg		20.0		89	70-130	1	30
2-Hexanone (MBK)	**18.2**		µg/kg		20.0		91	70-130	3	30
Isopropylbenzene	**18.2**		µg/kg		20.0		91	70-130	0.06	30
4-Isopropyltoluene	**20.5**		µg/kg		20.0		103	70-130	0.9	30
Methyl tert-butyl ether	**15.4**		µg/kg		20.0		77	70-130	0.8	30
4-Methyl-2-pentanone (MIBK)	**19.1**		µg/kg		20.0		95	70-130	9	30
Methylene chloride	**19.6**		µg/kg		20.0		98	70-130	2	30
Naphthalene	**16.6**		µg/kg		20.0		83	70-130	9	30
n-Propylbenzene	**18.2**		µg/kg		20.0		91	70-130	0.4	30
Styrene	**17.9**		µg/kg		20.0		89	70-130	3	30
1,1,1,2-Tetrachloroethane	**17.3**		µg/kg		20.0		87	70-130	2	30
1,1,2,2-Tetrachloroethane	**19.3**		µg/kg		20.0		97	70-130	0.3	30
Tetrachloroethene	**16.4**		µg/kg		20.0		82	70-130	1	30
Toluene	**18.8**		µg/kg		20.0		94	70-130	0.3	30
1,2,3-Trichlorobenzene	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2,4-Trichlorobenzene	**19.8**		µg/kg		20.0		99	70-130	1	30
1,3,5-Trichlorobenzene	**20.8**		µg/kg		20.0		104	70-130	0.2	30
1,1,1-Trichloroethane	**17.6**		µg/kg		20.0		88	70-130	1	30
1,1,2-Trichloroethane	**19.6**		µg/kg		20.0		98	70-130	2	30
Trichloroethene	**18.7**		µg/kg		20.0		94	70-130	1	30
Trichlorofluoromethane (Freon 11)	**23.6**		µg/kg		20.0		118	70-130	1	30
1,2,3-Trichloropropane	**19.8**		µg/kg		20.0		99	70-130	2	30
1,2,4-Trimethylbenzene	**19.2**		µg/kg		20.0		96	70-130	0.4	30
1,3,5-Trimethylbenzene	**18.6**		µg/kg		20.0		93	70-130	0.2	30
Vinyl chloride	**25.2**		µg/kg		20.0		126	70-130	0.8	30
m,p-Xylene	**17.3**		µg/kg		20.0		86	70-130	0.4	30
o-Xylene	**18.0**		µg/kg		20.0		90	70-130	1	30
Tetrahydrofuran	**16.4**		µg/kg		20.0		82	70-130	2	30
Ethyl ether	**22.6**		µg/kg		20.0		113	70-130	3	30
Tert-amyl methyl ether	**27.5**	QC2	µg/kg		20.0		137	70-130	3	30
Ethyl tert-butyl ether	**16.7**		µg/kg		20.0		84	70-130	1	30
Di-isopropyl ether	**21.5**		µg/kg		20.0		107	70-130	2	30
Tert-Butanol / butyl alcohol	**168**		µg/kg		200		84	70-130	10	30
1,4-Dioxane	**149**		µg/kg		200		75	70-130	3	30
trans-1,4-Dichloro-2-butene	**13.2**	QC2	µg/kg		20.0		66	70-130	7	30
Ethanol	**439**		µg/kg		400		110	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.0*		µg/kg		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
SW846 8260C TICs										
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
Tentatively Identified Compounds	**None found**		µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Acenaphthene	< 66.5	U	µg/kg wet	66.5						
Acenaphthylene	< 66.5	U	µg/kg wet	66.5						
Aniline	< 329	U	µg/kg wet	329						
Anthracene	< 66.5	U	µg/kg wet	66.5						
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329						
Benzidine	< 329	U	µg/kg wet	329						
Benzo (a) anthracene	< 66.5	U	µg/kg wet	66.5						
Benzo (a) pyrene	< 66.5	U	µg/kg wet	66.5						
Benzo (b) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzo (g,h,i) perylene	< 66.5	U	µg/kg wet	66.5						
Benzo (k) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 167	U	µg/kg wet	167						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 167	U	µg/kg wet	167						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.5	U	µg/kg wet	66.5						
Dibenzo (a,h) anthracene	< 66.5	U	µg/kg wet	66.5						
Dibenzofuran	< 167	U	µg/kg wet	167						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3´-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 167	U	µg/kg wet	167						
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.5	U	µg/kg wet	66.5						
Fluorene	< 66.5	U	µg/kg wet	66.5						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 66.5	U	µg/kg wet	66.5						
Isophorone	< 167	U	µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
2-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.5	U	µg/kg wet	66.5						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						
4-Nitroaniline	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
2-Nitrophenol	< 167	U	µg/kg wet	167						
4-Nitrophenol	< 1320	U	µg/kg wet	1320						
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.5	U	µg/kg wet	66.5						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.5	U	µg/kg wet	66.5						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 167	U	µg/kg wet	167						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	*1170*		µg/kg wet		*1660*		*70*	*30-130*		
Surrogate: 2-Fluorophenol	*989*		µg/kg wet		*1660*		*59*	*30-130*		
Surrogate: Nitrobenzene-d5	*1090*		µg/kg wet		*1660*		*66*	*30-130*		
Surrogate: Phenol-d5	*1140*		µg/kg wet		*1660*		*69*	*30-130*		
Surrogate: Terphenyl-dl4	*1520*		µg/kg wet		*1660*		*92*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*948*		µg/kg wet		*1660*		*57*	*30-130*		
LCS (1717180-BS1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Acenaphthene	**1220**		µg/kg wet	66.6	1670		73	40-140		
Acenaphthylene	**1280**		µg/kg wet	66.6	1670		77	40-140		
Aniline	**788**		µg/kg wet	330	1670		47	40-140		
Anthracene	**993**		µg/kg wet	66.6	1670		60	40-140		
Azobenzene/Diphenyldiazene	**1040**		µg/kg wet	330	1670		62	40-140		
Benzidine	**1730**		µg/kg wet	330	1670		104	40-140		
Benzo (a) anthracene	**1120**		µg/kg wet	66.6	1670		67	40-140		
Benzo (a) pyrene	**1200**		µg/kg wet	66.6	1670		72	40-140		
Benzo (b) fluoranthene	**1160**		µg/kg wet	66.6	1670		70	40-140		
Benzo (g,h,i) perylene	**1060**		µg/kg wet	66.6	1670		63	40-140		
Benzo (k) fluoranthene	**1320**		µg/kg wet	66.6	1670		79	40-140		
Benzoic acid	**175**	QC2, J	µg/kg wet	330	1670		11	30-130		
Benzyl alcohol	**1050**		µg/kg wet	330	1670		63	40-140		
Bis(2-chloroethoxy)methane	**727**		µg/kg wet	330	1670		44	40-140		
Bis(2-chloroethyl)ether	**925**		µg/kg wet	167	1670		56	40-140		
Bis(2-chloroisopropyl)ether	**629**	QC2	µg/kg wet	167	1670		38	40-140		
Bis(2-ethylhexyl)phthalate	**1130**		µg/kg wet	167	1670		68	40-140		
4-Bromophenyl phenyl ether	**917**		µg/kg wet	330	1670		55	40-140		
Butyl benzyl phthalate	**1150**		µg/kg wet	330	1670		69	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS (1717180-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Carbazole	**1500**		µg/kg wet	167	1670		90	40-140		
4-Chloro-3-methylphenol	**1320**		µg/kg wet	330	1670		79	30-130		
4-Chloroaniline	**917**		µg/kg wet	167	1670		55	40-140		
2-Chloronaphthalene	**1510**		µg/kg wet	330	1670		91	40-140		
2-Chlorophenol	**1070**		µg/kg wet	167	1670		64	30-130		
4-Chlorophenyl phenyl ether	**1170**		µg/kg wet	330	1670		70	40-140		
Chrysene	**1230**		µg/kg wet	66.6	1670		74	40-140		
Dibenzo (a,h) anthracene	**1310**		µg/kg wet	66.6	1670		79	40-140		
Dibenzofuran	**1330**		µg/kg wet	167	1670		80	40-140		
1,2-Dichlorobenzene	**1260**		µg/kg wet	330	1670		76	40-140		
1,3-Dichlorobenzene	**1210**		µg/kg wet	330	1670		72	40-140		
1,4-Dichlorobenzene	**1320**		µg/kg wet	330	1670		79	40-140		
3,3´-Dichlorobenzidine	**1760**		µg/kg wet	330	1670		106	40-140		
2,4-Dichlorophenol	**1130**		µg/kg wet	167	1670		68	30-130		
Diethyl phthalate	**1260**		µg/kg wet	330	1670		76	40-140		
Dimethyl phthalate	**1330**		µg/kg wet	330	1670		80	40-140		
2,4-Dimethylphenol	**1030**		µg/kg wet	330	1670		62	30-130		
Di-n-butyl phthalate	**1070**		µg/kg wet	330	1670		64	40-140		
4,6-Dinitro-2-methylphenol	**890**		µg/kg wet	330	1670		53	30-130		
2,4-Dinitrophenol	**658**		µg/kg wet	330	1670		40	30-130		
2,4-Dinitrotoluene	**1480**		µg/kg wet	167	1670		89	40-140		
2,6-Dinitrotoluene	**1380**		µg/kg wet	167	1670		83	40-140		
Di-n-octyl phthalate	**1270**		µg/kg wet	330	1670		76	40-140		
Fluoranthene	**1130**		µg/kg wet	66.6	1670		68	40-140		
Fluorene	**1050**		µg/kg wet	66.6	1670		63	40-140		
Hexachlorobenzene	**1330**		µg/kg wet	167	1670		80	40-140		
Hexachlorobutadiene	**1410**		µg/kg wet	167	1670		84	40-140		
Hexachlorocyclopentadiene	**1910**		µg/kg wet	167	1670		115	40-140		
Hexachloroethane	**1320**		µg/kg wet	167	1670		79	40-140		
Indeno (1,2,3-cd) pyrene	**1240**		µg/kg wet	66.6	1670		75	40-140		
Isophorone	**938**		µg/kg wet	167	1670		56	40-140		
2-Methylnaphthalene	**1380**		µg/kg wet	66.6	1670		83	40-140		
2-Methylphenol	**940**		µg/kg wet	330	1670		56	30-130		
3 & 4-Methylphenol	**1090**		µg/kg wet	330	1670		65	30-130		
Naphthalene	**1170**		µg/kg wet	66.6	1670		70	40-140		
2-Nitroaniline	**1100**		µg/kg wet	330	1670		66	40-140		
3-Nitroaniline	**1520**		µg/kg wet	330	1670		91	40-140		
4-Nitroaniline	**999**		µg/kg wet	167	1670		60	40-140		
Nitrobenzene	**1250**		µg/kg wet	167	1670		75	40-140		
2-Nitrophenol	**1120**		µg/kg wet	167	1670		67	30-130		
4-Nitrophenol	**1150**	J	µg/kg wet	1320	1670		69	30-130		
N-Nitrosodimethylamine	**878**		µg/kg wet	167	1670		53	40-140		
N-Nitrosodi-n-propylamine	**913**		µg/kg wet	167	1670		55	40-140		
N-Nitrosodiphenylamine	**1070**		µg/kg wet	330	1670		64	40-140		
Pentachlorophenol	**564**		µg/kg wet	330	1670		34	30-130		
Phenanthrene	**1040**		µg/kg wet	66.6	1670		63	40-140		
Phenol	**1100**		µg/kg wet	330	1670		66	30-130		
Pyrene	**1170**		µg/kg wet	66.6	1670		70	40-140		
Pyridine	**680**		µg/kg wet	330	1670		41	40-140		
1,2,4-Trichlorobenzene	**1300**		µg/kg wet	330	1670		78	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS (1717180-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
1-Methylnaphthalene	**1200**		µg/kg wet	66.6	1670		72	40-140		
2,4,5-Trichlorophenol	**1320**		µg/kg wet	330	1670		79	30-130		
2,4,6-Trichlorophenol	**1200**		µg/kg wet	167	1670		72	30-130		
Pentachloronitrobenzene	**1480**		µg/kg wet	330	1670		89	40-140		
1,2,4,5-Tetrachlorobenzene	**1250**		µg/kg wet	330	1670		75	40-140		
Surrogate: 2-Fluorobiphenyl	*1180*		µg/kg wet		*1670*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*904*		µg/kg wet		*1670*		*54*	*30-130*		
Surrogate: Nitrobenzene-d5	*1010*		µg/kg wet		*1670*		*61*	*30-130*		
Surrogate: Phenol-d5	*1090*		µg/kg wet		*1670*		*65*	*30-130*		
Surrogate: Terphenyl-dl4	*1270*		µg/kg wet		*1670*		*76*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1010*		µg/kg wet		*1670*		*61*	*30-130*		
LCS Dup (1717180-BSD1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Acenaphthene	**1170**		µg/kg wet	66.4	1660		71	40-140	4	30
Acenaphthylene	**1220**		µg/kg wet	66.4	1660		74	40-140	5	30
Aniline	**767**		µg/kg wet	329	1660		46	40-140	3	30
Anthracene	**967**		µg/kg wet	66.4	1660		58	40-140	3	30
Azobenzene/Diphenyldiazene	**995**		µg/kg wet	329	1660		60	40-140	4	30
Benzidine	**1690**		µg/kg wet	329	1660		102	40-140	2	30
Benzo (a) anthracene	**1050**		µg/kg wet	66.4	1660		63	40-140	6	30
Benzo (a) pyrene	**1180**		µg/kg wet	66.4	1660		71	40-140	1	30
Benzo (b) fluoranthene	**1310**		µg/kg wet	66.4	1660		79	40-140	12	30
Benzo (g,h,i) perylene	**1060**		µg/kg wet	66.4	1660		64	40-140	0.2	30
Benzo (k) fluoranthene	**1090**		µg/kg wet	66.4	1660		65	40-140	19	30
Benzoic acid	**208**	QC2, J	µg/kg wet	329	1660		13	30-130	17	30
Benzyl alcohol	**1070**		µg/kg wet	329	1660		64	40-140	1	30
Bis(2-chloroethoxy)methane	**670**		µg/kg wet	329	1660		40	40-140	8	30
Bis(2-chloroethyl)ether	**855**		µg/kg wet	166	1660		51	40-140	8	30
Bis(2-chloroisopropyl)ether	**651**	QC2	µg/kg wet	166	1660		39	40-140	3	30
Bis(2-ethylhexyl)phthalate	**1090**		µg/kg wet	166	1660		66	40-140	3	30
4-Bromophenyl phenyl ether	**902**		µg/kg wet	329	1660		54	40-140	2	30
Butyl benzyl phthalate	**1120**		µg/kg wet	329	1660		67	40-140	3	30
Carbazole	**1440**		µg/kg wet	166	1660		87	40-140	4	30
4-Chloro-3-methylphenol	**1140**		µg/kg wet	329	1660		68	30-130	15	30
4-Chloroaniline	**871**		µg/kg wet	166	1660		52	40-140	5	30
2-Chloronaphthalene	**1460**		µg/kg wet	329	1660		88	40-140	3	30
2-Chlorophenol	**1010**		µg/kg wet	166	1660		61	30-130	6	30
4-Chlorophenyl phenyl ether	**1140**		µg/kg wet	329	1660		69	40-140	3	30
Chrysene	**1200**		µg/kg wet	66.4	1660		72	40-140	2	30
Dibenzo (a,h) anthracene	**1210**		µg/kg wet	66.4	1660		73	40-140	8	30
Dibenzofuran	**1300**		µg/kg wet	166	1660		78	40-140	3	30
1,2-Dichlorobenzene	**1260**		µg/kg wet	329	1660		76	40-140	0.4	30
1,3-Dichlorobenzene	**1130**		µg/kg wet	329	1660		68	40-140	6	30
1,4-Dichlorobenzene	**1220**		µg/kg wet	329	1660		74	40-140	7	30
3,3´-Dichlorobenzidine	**1700**		µg/kg wet	329	1660		102	40-140	3	30
2,4-Dichlorophenol	**1040**		µg/kg wet	166	1660		63	30-130	8	30
Diethyl phthalate	**1180**		µg/kg wet	329	1660		71	40-140	7	30
Dimethyl phthalate	**1300**		µg/kg wet	329	1660		78	40-140	2	30
2,4-Dimethylphenol	**932**		µg/kg wet	329	1660		56	30-130	10	30
Di-n-butyl phthalate	**1110**		µg/kg wet	329	1660		67	40-140	4	30
4,6-Dinitro-2-methylphenol	**847**		µg/kg wet	329	1660		51	30-130	5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS Dup (1717180-BSD1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
2,4-Dinitrophenol	**615**		µg/kg wet	329	1660		37	30-130	7	30
2,4-Dinitrotoluene	**1400**		µg/kg wet	166	1660		84	40-140	5	30
2,6-Dinitrotoluene	**1340**		µg/kg wet	166	1660		81	40-140	3	30
Di-n-octyl phthalate	**1260**		µg/kg wet	329	1660		76	40-140	1	30
Fluoranthene	**1100**		µg/kg wet	66.4	1660		66	40-140	2	30
Fluorene	**975**		µg/kg wet	66.4	1660		59	40-140	7	30
Hexachlorobenzene	**1240**		µg/kg wet	166	1660		75	40-140	7	30
Hexachlorobutadiene	**1230**		µg/kg wet	166	1660		74	40-140	13	30
Hexachlorocyclopentadiene	**1760**		µg/kg wet	166	1660		106	40-140	8	30
Hexachloroethane	**1300**		µg/kg wet	166	1660		79	40-140	1	30
Indeno (1,2,3-cd) pyrene	**1150**		µg/kg wet	66.4	1660		69	40-140	8	30
Isophorone	**888**		µg/kg wet	166	1660		53	40-140	6	30
2-Methylnaphthalene	**1130**		µg/kg wet	66.4	1660		68	40-140	20	30
2-Methylphenol	**954**		µg/kg wet	329	1660		57	30-130	2	30
3 & 4-Methylphenol	**1100**		µg/kg wet	329	1660		66	30-130	1	30
Naphthalene	**1050**		µg/kg wet	66.4	1660		63	40-140	11	30
2-Nitroaniline	**1050**		µg/kg wet	329	1660		63	40-140	5	30
3-Nitroaniline	**1550**		µg/kg wet	329	1660		94	40-140	2	30
4-Nitroaniline	**987**		µg/kg wet	166	1660		59	40-140	1	30
Nitrobenzene	**1180**		µg/kg wet	166	1660		71	40-140	6	30
2-Nitrophenol	**1030**		µg/kg wet	166	1660		62	30-130	9	30
4-Nitrophenol	**1090**	J	µg/kg wet	1310	1660		65	30-130	6	30
N-Nitrosodimethylamine	**752**		µg/kg wet	166	1660		45	40-140	15	30
N-Nitrosodi-n-propylamine	**924**		µg/kg wet	166	1660		56	40-140	1	30
N-Nitrosodiphenylamine	**1010**		µg/kg wet	329	1660		61	40-140	6	30
Pentachlorophenol	**532**		µg/kg wet	329	1660		32	30-130	6	30
Phenanthrene	**1040**		µg/kg wet	66.4	1660		62	40-140	0.6	30
Phenol	**1030**		µg/kg wet	329	1660		62	30-130	7	30
Pyrene	**1210**		µg/kg wet	66.4	1660		73	40-140	3	30
Pyridine	**558**	QC2	µg/kg wet	329	1660		34	40-140	20	30
1,2,4-Trichlorobenzene	**1250**		µg/kg wet	329	1660		75	40-140	4	30
1-Methylnaphthalene	**1140**		µg/kg wet	66.4	1660		69	40-140	5	30
2,4,5-Trichlorophenol	**1270**		µg/kg wet	329	1660		76	30-130	4	30
2,4,6-Trichlorophenol	**1160**		µg/kg wet	166	1660		70	30-130	3	30
Pentachloronitrobenzene	**1470**		µg/kg wet	329	1660		88	40-140	1	30
1,2,4,5-Tetrachlorobenzene	**1160**		µg/kg wet	329	1660		70	40-140	7	30
Surrogate: 2-Fluorobiphenyl	*1180*		µg/kg wet		*1660*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*888*		µg/kg wet		*1660*		*53*	*30-130*		
Surrogate: Nitrobenzene-d5	*1000*		µg/kg wet		*1660*		*60*	*30-130*		
Surrogate: Phenol-d5	*1050*		µg/kg wet		*1660*		*63*	*30-130*		
Surrogate: Terphenyl-dl4	*1410*		µg/kg wet		*1660*		*85*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1000*		µg/kg wet		*1660*		*60*	*30-130*		
SW846 8270D TICS										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Tentatively Identified Compounds	**None found**		µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1717183 - SW846 3546										
Blank (1717183-BLK1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	< 19.9	U	µg/kg wet	19.9						
Aroclor-1016 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268 [2C]	< 19.9	U	µg/kg wet	19.9						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.0*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.0*		µg/kg wet		*19.9*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*19.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.9*		µg/kg wet		*19.9*		*80*	*30-150*		
LCS (1717183-BS1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	**146**		µg/kg wet	19.4	243		60	40-140		
Aroclor-1016 [2C]	**171**		µg/kg wet	19.4	243		70	40-140		
Aroclor-1260	**161**		µg/kg wet	19.4	243		66	40-140		
Aroclor-1260 [2C]	**199**		µg/kg wet	19.4	243		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.6*		µg/kg wet		*19.4*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*12.6*		µg/kg wet		*19.4*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.4*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.5*		µg/kg wet		*19.4*		*80*	*30-150*		
LCS Dup (1717183-BSD1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	**167**		µg/kg wet	19.5	244		68	40-140	13	30
Aroclor-1016 [2C]	**169**		µg/kg wet	19.5	244		69	40-140	1	30
Aroclor-1260	**173**		µg/kg wet	19.5	244		71	40-140	7	30
Aroclor-1260 [2C]	**182**		µg/kg wet	19.5	244		75	40-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.7*		µg/kg wet		*19.5*		*65*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.6*		µg/kg wet		*19.5*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.5*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.6*		µg/kg wet		*19.5*		*80*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/6010C										
Batch 1718100 - SW846 3010A										
Blank (1718100-BLK1)						Prepared: 25-Oct-17 Analyzed: 26-Oct-17				
Lead	< 0.0150	U	mg/l	0.0150						
LCS (1718100-BS1)						Prepared: 25-Oct-17 Analyzed: 26-Oct-17				
Lead	**2.39**		mg/l	0.0150	2.50		96	85-115		
LCS Dup (1718100-BSD1)						Prepared: 25-Oct-17 Analyzed: 26-Oct-17				
Lead	**2.40**		mg/l	0.0150	2.50		96	85-115	0.4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 9045D										
Batch 1716875 - General Preparation										
Reference (1716875-SRM1)						Prepared & Analyzed: 05-Oct-17				
pH	**6.07**		pH Units		6.00		101	97.5-102.5		
Reference (1716875-SRM2)						Prepared & Analyzed: 05-Oct-17				
pH	**6.04**		pH Units		6.00		101	97.5-102.5		
SW846 Ch. 7.3										
Batch 1717083 - General Preparation										
Blank (1717083-BLK1)						Prepared & Analyzed: 06-Oct-17				
Reactivity	**See Narrative**		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
Reference (1717083-SRM1)						Prepared & Analyzed: 06-Oct-17				
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0	13400		0	0-200		
Reference (1717083-SRM2)						Prepared & Analyzed: 06-Oct-17				
Reactive Cyanide	**26.0**		mg/kg wet	25.0	200		13	0-200		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW6010C										
Batch 404431A - 404431-										
BLK (BZ15936-BLK)					Prepared: 05-Oct-17 Analyzed: 06-Oct-17					
Barium	< 0.33	c1	mg/kg	0.33				-		
Cadmium	< 0.33	c1	mg/kg	0.33				-		
Chromium	< 0.33	c1	mg/kg	0.33				-		
Lead	< 0.33	c1	mg/kg	0.33				-		
Selenium	< 1.3	c1	mg/kg	1.3				-		
Silver	< 0.33	c1	mg/kg	0.33				-		
Arsenic	< 0.67	c1	mg/kg	0.67				-		
DUP (BZ15936-DUP)			**Source: BZ15936**		Prepared: 05-Oct-17 Analyzed: 06-Oct-17					
Cadmium	< 0.36	c1	mg/kg	0.36				-	NC	30
Arsenic	**1.54**	c1	mg/kg	0.73				-	NC	30
Selenium	< 1.5	c1	mg/kg	1.5				-	NC	30
Lead	**14.6**	c1	mg/kg	0.36				-	7.8	30
Chromium	**18.6**	c1	mg/kg	0.36				-	16.7	30
Barium	**54.2**	c1	mg/kg	0.36				-	6.3	30
Silver	< 3.6	c1	mg/kg	3.6				-	NC	30
LCS (BZ15936-LCS)					Prepared: 05-Oct-17 Analyzed: 06-Oct-17					
Silver	**42.18**	c1	mg/kg	0.33	48.1		87.7	75-125		30
Selenium	**61.74**	c1	mg/kg	1.3	73.7		83.8	75-125		30
Lead	**70.38**	c1	mg/kg	0.33	83.8		84.0	75-125		30
Chromium	**95.58**	I, c1	mg/kg	0.33	131		73.0	75-125		30
Cadmium	**71.92**	I, c1	mg/kg	0.33	99.8		72.1	75-125		30
Barium	**191.2**	c1	mg/kg	0.33	253		75.6	75-125		30
Arsenic	**80.59**	I, c1	mg/kg	0.67	115		70.1	75-125		30
MS (BZ15936-MS)			**Source: BZ15936**		Prepared: 05-Oct-17 Analyzed: 06-Oct-17					
Lead	**317.0**	c1	mg/kg	0.33	307.2		98.8	75-125		30
Arsenic	**290.3**	c1	mg/kg	0.67	307.2		93.9	75-125		30
Selenium	**122.9**	c1	mg/kg	1.3	153.6		90.9	75-125		30
Chromium	**178.8**	c1	mg/kg	0.33	153.6		102	75-125		30
Barium	**191.0**	c1	mg/kg	0.33	153.6		91.2	75-125		30
Silver	**44.52**	c1	mg/kg	0.33	38.4		115	75-125		30
Cadmium	**148.6**	c1	mg/kg	0.33	153.6		96.5	75-125		30
SW7471B										
Batch 404534A - 404534-										
BLK (BZ15280-BLK)					Prepared & Analyzed: 09-Oct-17					
Mercury	< 0.02		mg/kg	0.02				-		
DUP (BZ15280-DUP)			**Source: BZ15280**		Prepared & Analyzed: 09-Oct-17					
Mercury	< 0.03		mg/kg	0.03				-	NC	30
LCS (BZ15280-LCS)					Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1191**		mg/kg	0.02	0.1449		82.2	70-130		30
LCSD (BZ15280-LCSD)					Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1327**		%		0.1515		87.6	70-130	6.4	30
MS (BZ15280-MS)			**Source: BZ15280**		Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1805**		mg/kg	0.02	.16393437		110	75-125		30
SW8081B										
Batch 404584A - 404584-										
BLK (BZ15917-BLK)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
g-BHC	**ND**		ug/Kg	1.0				-		
Endrin ketone	**ND**		ug/Kg	3.3				-		
Endrin aldehyde	**ND**		ug/Kg	3.3				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
BLK (BZ15917-BLK)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Endrin	**ND**		ug/Kg	3.3				-		
g-Chlordane	**ND**		ug/Kg	3.3				-		
Endosulfan II	**ND**		ug/Kg	3.3				-		
Toxaphene	**ND**		ug/Kg	130				-		
Endosulfan I	**ND**		ug/Kg	3.3				-		
Dieldrin	**ND**		ug/Kg	1.0				-		
d-BHC	**ND**		ug/Kg	3.3				-		
4,4' -DDD	**ND**		ug/Kg	1.7				-		
Chlordane	**ND**		ug/Kg	33				-		
4,4' -DDE	**ND**		ug/Kg	1.7				-		
Endosulfan sulfate	**ND**		ug/Kg	3.3				-		
Heptachlor	**ND**		ug/Kg	3.3				-		
Heptachlor epoxide	**ND**		ug/Kg	3.3				-		
Methoxychlor	**ND**		ug/Kg	3.3				-		
4,4' -DDT	**ND**		ug/Kg	1.7				-		
b-BHC	**ND**		ug/Kg	1.0				-		
Aldrin	**ND**		ug/Kg	1.0				-		
a-Chlordane	**ND**		ug/Kg	3.3				-		
a-BHC	**ND**		ug/Kg	1.0				-		
Surrogate: % DCBP	*64*		ug/Kg		*100*			*30-150*		
Surrogate: % TCMX	*68*		ug/Kg		*100*			*30-150*		
LCS (BZ15917-LCS)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
4,4' -DDE	**41.10**		ug/Kg	1.7	50		82	40-140		30
Methoxychlor	**41.39**		ug/Kg	3.3	50		83	40-140		30
a-BHC	**45.97**		ug/Kg	1.0	50		92	40-140		30
4,4' -DDT	**51.25**		ug/Kg	1.7	50		103	40-140		30
4,4' -DDD	**44.07**		ug/Kg	1.7	50		88	40-140		30
Endosulfan I	**43.54**		ug/Kg	3.3	50		87	40-140		30
Heptachlor	**39.73**		ug/Kg	3.3	50		79	40-140		30
g-Chlordane	**41.06**		ug/Kg	3.3	50		82	40-140		30
g-BHC	**44.16**		ug/Kg	1.0	50		88	40-140		30
Endrin ketone	**40.52**		ug/Kg	3.3	50		81	40-140		30
Endrin aldehyde	**36.76**		ug/Kg	3.3	50		74	40-140		30
Endrin	**42.83**		ug/Kg	3.3	50		86	40-140		30
Toxaphene	**ND**		ug/Kg	130	50		NA	40-140		30
Endosulfan II	**44.50**		ug/Kg	3.3	50		89	40-140		30
Heptachlor epoxide	**42.93**		ug/Kg	3.3	50		86	40-140		30
Dieldrin	**37.29**		ug/Kg	1.0	50		75	40-140		30
d-BHC	**42.54**		ug/Kg	3.3	50		85	40-140		30
Chlordane	**41.06**		ug/Kg	33	50		82	40-140		30
b-BHC	**43.75**		ug/Kg	1.0	50		88	40-140		30
Aldrin	**39.62**		ug/Kg	1.0	50		79	40-140		30
a-Chlordane	**42.53**		ug/Kg	3.3	50		85	40-140		30
Endosulfan sulfate	**41.90**		ug/Kg	3.3	50		84	40-140		30
Surrogate: % TCMX	*85.19*		ug/Kg		*100*		*85*	*30-150*		
Surrogate: % DCBP	*80.92*		ug/Kg		*100*		*81*	*30-150*		
LCSD (BZ15917-LCSD)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Aldrin	**42.11**		%	%	50		84	40-140	6.1	30
4,4' -DDE	**44.70**		%	%	50		89	40-140	8.2	30
a-Chlordane	**45.32**		%	%	50		91	40-140	6.8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
LCSD (BZ15917-LCSD)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Toxaphene	**ND**		%	%	50		NA	40-140	NC	30
Methoxychlor	**45.37**		%	%	50		91	40-140	9.2	30
4,4' -DDT	**51.48**		%	%	50		103	40-140	0.0	30
Heptachlor epoxide	**46.51**		%	%	50		93	40-140	7.8	30
Heptachlor	**42.13**		%	%	50		84	40-140	6.1	30
g-Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
b-BHC	**46.02**		%	%	50		92	40-140	4.4	30
a-BHC	**47.49**		%	%	50		95	40-140	3.2	30
d-BHC	**45.41**		%	%	50		91	40-140	6.8	30
Endrin ketone	**42.29**		%	%	50		85	40-140	4.8	30
Endrin aldehyde	**40.39**		%	%	50		81	40-140	9.0	30
Endrin	**45.74**		%	%	50		91	40-140	5.6	30
Endosulfan sulfate	**43.93**		%	%	50		88	40-140	4.7	30
Endosulfan II	**47.31**		%	%	50		95	40-140	6.5	30
Endosulfan I	**46.58**		%	%	50		93	40-140	6.7	30
4,4' -DDD	**47.05**		%	%	50		94	40-140	6.6	30
Dieldrin	**46.05**		%	%	50		92	40-140	20.4	30
Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
g-BHC	**46.92**		%	%	50		94	40-140	6.6	30
Surrogate: % DCBP	*92.94*		%		*100*		*93*	*30-150*		
Surrogate: % TCMX	*91.37*		%		*100*		*91*	*30-150*		
MS (BZ15917-MS)			**Source: BZ15917**		Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Heptachlor	**34.13**		ug/Kg	3.3	50		67	30-150		30
4,4' -DDT	**40.60**	r	ug/Kg	1.7	50		57	30-150		30
Endrin	**41.03**		ug/Kg	3.3	50		82	30-150		30
Endosulfan sulfate	**32.63**		ug/Kg	3.3	50		64	30-150		30
Endosulfan II	**34.62**	r	ug/Kg	3.3	50		69	30-150		30
Endosulfan I	**35.23**		ug/Kg	3.3	50		68	30-150		30
Dieldrin	**42.32**		ug/Kg	1.0	50		75	30-150		30
d-BHC	**31.55**		ug/Kg	3.3	50		63	30-150		30
Chlordane	**70.40**		ug/Kg	33	50		78	30-150		30
b-BHC	**28.74**		ug/Kg	1.0	50		57	30-150		30
Aldrin	**30.06**		ug/Kg	1.0	50		58	30-150		30
Methoxychlor	**37.16**		ug/Kg	3.3	50		74	30-150		30
a-BHC	**36.16**		ug/Kg	1.0	50		71	30-150		30
Endrin aldehyde	**37.60**		ug/Kg	3.3	50		68	30-150		30
4,4' -DDE	**39.45**		ug/Kg	1.7	50		69	30-150		30
4,4' -DDD	**45.05**		ug/Kg	1.7	50		65	30-150		30
Endrin ketone	**36.93**		ug/Kg	3.3	50		74	30-150		30
g-BHC	**33.56**		ug/Kg	1.0	50		67	30-150		30
g-Chlordane	**70.40**		ug/Kg	3.3	50		78	30-150		30
Heptachlor epoxide	**35.23**		ug/Kg	3.3	50		70	30-150		30
Toxaphene	**ND**		ug/Kg	130	50		NA	30-150		30
a-Chlordane	**106.2**	r	ug/Kg	3.3	50		92	30-150		30
Surrogate: % TCMX	*68.61*		ug/Kg		*100*		*69*	*30-150*		
Surrogate: % DCBP	*74.21*		ug/Kg		*100*		*74*	*30-150*		
MSD (BZ15917-MSD)			**Source: BZ15917**		Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
a-BHC	**39.49**		%	%	50		77	30-150	8.1	30
Endosulfan II	**48.45**	r	%	%	50		97	30-150	33.7	30
4,4' -DDD	**55.02**		%	%	50		84	30-150	25.5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
MSD (BZ15917-MSD)			**Source: BZ15917**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
4,4' -DDE	**38.49**		%	%	50		67	30-150	2.9	30
4,4' -DDT	**56.58**	r	%	%	50		89	30-150	43.8	30
Chlordane	**62.68**		%	%	50		61	30-150	24.5	30
a-Chlordane	**90.99**	r	%	%	50		59	30-150	43.7	30
b-BHC	**26.94**		%	%	50		54	30-150	5.4	30
Dieldrin	**42.36**		%	%	50		75	30-150	0.0	30
Aldrin	**32.59**		%	%	50		63	30-150	8.3	30
Endosulfan I	**35.19**		%	%	50		68	30-150	0.0	30
Toxaphene	**ND**		%	%	50		NA	30-150	NC	30
Endosulfan sulfate	**38.83**		%	%	50		77	30-150	18.4	30
Endrin	**47.47**		%	%	50		95	30-150	14.7	30
Endrin aldehyde	**40.88**		%	%	50		74	30-150	8.5	30
Endrin ketone	**34.49**		%	%	50		69	30-150	7.0	30
g-BHC	**35.01**		%	%	50		70	30-150	4.4	30
g-Chlordane	**62.68**		%	%	50		61	30-150	24.5	30
Heptachlor	**38.06**		%	%	50		74	30-150	9.9	30
Heptachlor epoxide	**37.24**		%	%	50		74	30-150	5.6	30
Methoxychlor	**41.12**		%	%	50		82	30-150	10.3	30
d-BHC	**34.40**		%	%	50		69	30-150	9.1	30
Surrogate: % TCMX	*76.21*		%		*100*		*76*	*30-150*		
Surrogate: % DCBP	*73.79*		%		*100*		*74*	*30-150*		
SW8151A										
Batch 404600A - 404600-										
BLK (BZ16866-BLK)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
2,4,5-T	**ND**		ug/Kg	83				-		
2,4-D	**ND**		ug/Kg	170				-		
2,4-DB	**ND**		ug/Kg	1700				-		
Dinoseb	**ND**		ug/Kg	170				-		
Dichloroprop	**ND**		ug/Kg	170				-		
Dicamba	**ND**		ug/Kg	83				-		
Dalapon	**ND**		ug/Kg	83				-		
2,4,5-TP (Silvex)	**ND**		ug/Kg	83				-		
Surrogate: % DCAA	*58*		ug/Kg		*1000*			*30-150*		
LCS (BZ16866-LCS)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Dinoseb	**56.09**		ug/Kg	170	100		56	40-140		30
Dichloroprop	**157.1**		ug/Kg	170	200		79	40-140		30
Dicamba	**72.78**		ug/Kg	83	100		73	40-140		30
Dalapon	**43.00**		ug/Kg	83	100		43	40-140		30
2,4-DB	**622.8**		ug/Kg	1700	1000		62	40-140		30
2,4-D	**119.8**		ug/Kg	170	200		60	40-140		30
2,4,5-TP (Silvex)	**64.13**		ug/Kg	83	100		64	40-140		30
2,4,5-T	**60.79**		ug/Kg	83	100		61	40-140		30
Surrogate: % DCAA	*524.4*		ug/Kg		*1000*		*52*	*30-150*		
LCSD (BZ16866-LCSD)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
2,4,5-TP (Silvex)	**66.71**		ug/Kg	%	100		67	40-140	4.6	30
2,4,5-T	**67.24**		ug/Kg	%	100		67	40-140	9.4	30
2,4-D	**126.1**		ug/Kg	%	200		63	40-140	4.9	30
Dalapon	**44.17**		ug/Kg	%	100		44	40-140	2.3	30
Dicamba	**74.87**		ug/Kg	%	100		75	40-140	2.7	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8151A										
Batch 404600A - 404600-										
LCSD (BZ16866-LCSD)					Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Dichloroprop	**165.7**		ug/Kg	%	200		83	40-140	4.9	30
Dinoseb	**58.61**		ug/Kg	%	100		59	40-140	5.2	30
2,4-DB	**708.3**		ug/Kg	%	1000		71	40-140	13.5	30
Surrogate: % DCAA	*543.3*		ug/Kg		*1000*		*54*	*30-150*		
MS (BZ16866-MS)			**Source: BZ16866**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
2,4-DB	**651.4**		ug/Kg	1700	1000		65	30-150		30
2,4,5-T	**61.01**		ug/Kg	83	100		61	30-150		30
2,4-D	**127.0**		ug/Kg	170	200		64	30-150		30
Dalapon	**57.96**	r	ug/Kg	83	100		58	30-150		30
Dicamba	**70.95**		ug/Kg	83	100		71	30-150		30
Dichloroprop	**155.2**		ug/Kg	170	200		78	30-150		30
Dinoseb	**60.74**		ug/Kg	170	100		61	30-150		30
2,4,5-TP (Silvex)	**62.75**		ug/Kg	83	100		63	30-150		30
Surrogate: % DCAA	*525.6*		ug/Kg		*1000*		*53*	*30-150*		
MSD (BZ16866-MSD)			**Source: BZ16866**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Dichloroprop	**154.7**		%	%	200		77	30-150	1.3	30
2,4,5-T	**77.04**		%	%	100		77	30-150	23.2	30
2,4,5-TP (Silvex)	**61.88**		%	%	100		62	30-150	1.6	30
2,4-D	**137.9**		%	%	200		69	30-150	7.5	30
2,4-DB	**625.2**		%	%	1000		63	30-150	3.1	30
Dalapon	**37.80**	r	%	%	100		38	30-150	41.7	30
Dicamba	**70.25**		%	%	100		70	30-150	1.4	30
Dinoseb	**63.67**		%	%	100		64	30-150	4.8	30
Surrogate: % DCAA	*522.0*		%		*1000*		*52*	*30-150*		

Analyte(s)	Column	% Breakdown	Limit

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC40018-01	*Metal Waste-W*	10/2/2017 3:50 PM
SC40018-02	*Metal Waste-E*	10/2/2017 3:50 PM

Notes and Definitions

c1	[Undefined]
c1	Some LCS recoveries were below acceptance criteria, MS recoveries were within criteria for these elements; a significant bias is not suspected.
D	Data reported from a dilution
IgHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC40018 By

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☒ Standard TAT - 7 to 10 business days

☐ Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Day Environmental, Inc
1563 Lyell Avenue
Rochester NY 14606

Telephone #: 585 454 0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o Sol Epoxy Inc
211 Franklin St
Olean, NY 14760

P.O No.: 8696 Quote #:

Project No: 4884s-13
Site Name: C905043 (202 Franklin St)
Location: Olean State: NY
Sampler(s): C. Hampton

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Methanol 12= _____

List Preservative Code below: 9/11

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic RCRA 8 Metals	Full List VOC Tics	Analysis: Full List SVOC Tics	Pesticides (8081)	Herbicides (8151)	PCB (8082)	Flash (1030)	Corrosivity (9045)	Reactivity - Sulfide	Reactivity - Cyanide	Check if chlorinated	
SC40018 01	Metal Waste - W	9/29/17	10:15	G	SO	3	3		X	X	X	X	X	X	X	X	X	X	☐	3:1 Composite - then test
02	Metal Waste - E	9/29/17	10:30	G	SO	3	3		X	X	X	X	X	X	X	X	X	X	☐	3:1 Composite - then test
03	Metal-Waste-W-Comp										↑	↑	↑	↑	↑	↑	↑	↑	☐	↑
04	Metal-Waste-E-Comp																		☐	
																			☐	Samples added per client notes: 9/29/17
																			☐	
																			☐	
																			☐	
																			☐	
																			☐	Note: Samples frozen on 9/29/17

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
Cynthia Smith	Cynthia Sm	10/2/17	15:50	Observed 2.2
Cynthia Smith	[signature]	10/3/17	1229	Correction Factor 0
				Corrected 2.2
				IR ID # 3 CAS 10/2/17

☐ EDD format: _____
☒ E-mail to: champton@daymail.net

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☒ DI VOA Frozen ☐ Soil Jar Frozen

4.0 | 0 | 4.0 | 2

eurofins | Spectrum Analytical

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

Laboratory ID	*Client ID*	*Analysis*	*Added*
SC40018-03	Metal Waste-W-Comp	TCLP Extraction for Metals	10/24/2017
SC40018-03	Metal Waste-W-Comp	TCLP Lead by ICP	10/24/2017
SC40018-04	Metal Waste-E-Comp	TCLP Extraction for Metals	10/24/2017
SC40018-04	Metal Waste-E-Comp	TCLP Lead by ICP	10/24/2017

Batch Summary

'[none]'

Subcontracted Analyses

SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1716875

Toxicity Characteristics

1716875-SRM1
1716875-SRM2
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1716984

General Chemistry Parameters

SC40018-01 (Metal Waste-W)
SC40018-02 (Metal Waste-E)

1717010

General Chemistry Parameters

SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717013

Toxicity Characteristics

SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717019

General Chemistry Parameters

SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717083

Toxicity Characteristics

1717083-BLK1
1717083-SRM1
1717083-SRM2
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717180

Semivolatile Organic Compounds by GCMS

1717180-BLK1
1717180-BS1
1717180-BSD1
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717183

Semivolatile Organic Compounds by GC

1717183-BLK1
1717183-BS1
1717183-BSD1
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1717335

Volatile Organic Compounds

1717335-BLK1
1717335-BS1
1717335-BSD1
SC40018-01 (Metal Waste-W)
SC40018-02 (Metal Waste-E)

1718056

TCLP Metals by EPA 1311 & 6000/7000 Series Methods

SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

1718059

General Chemistry Parameters

SC40018-03RE1 (Metal Waste-W-Comp)

1718100

TCLP Metals by EPA 1311 & 6000/7000 Series Methods

1718100-BLK1
1718100-BS1
1718100-BSD1
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

404431A

Subcontracted Analyses

BZ15936-BLK
BZ15936-DUP
BZ15936-LCS
BZ15936-MS
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

404534A

Subcontracted Analyses

BZ15280-BLK
BZ15280-DUP
BZ15280-LCS
BZ15280-LCSD
BZ15280-MS
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

404584A

Subcontracted Analyses

BZ15917-BLK
BZ15917-LCS
BZ15917-LCSD
BZ15917-MS
BZ15917-MSD
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

404600A

Subcontracted Analyses

BZ16866-BLK
BZ16866-LCS
BZ16866-LCSD
BZ16866-MS
BZ16866-MSD
SC40018-03 (Metal Waste-W-Comp)
SC40018-04 (Metal Waste-E-Comp)

S705626

Semivolatile Organic Compounds by GC

S705626-CAL1
S705626-CAL2
S705626-CAL3
S705626-CAL4
S705626-CAL5
S705626-CAL6
S705626-CAL7
S705626-CAL8
S705626-CAL9
S705626-CALA
S705626-CALB
S705626-CALC
S705626-CALD
S705626-CALE
S705626-CALF
S705626-CALG
S705626-CALH
S705626-CALI
S705626-CALJ
S705626-CALK
S705626-CALL
S705626-CALM
S705626-CALN
S705626-CALO
S705626-CALP
S705626-CALQ
S705626-CALR
S705626-CALS
S705626-CALT
S705626-CALU
S705626-ICV1
S705626-ICV2
S705626-ICV3
S705626-ICV4
S705626-ICV5
S705626-ICV6
S705626-LCV1
S705626-LCV2
S705626-LCV3
S705626-LCV4
S705626-LCV5
S705626-LCV6

S708282

Semivolatile Organic Compounds by GCMS

S708282-CAL1
S708282-CAL2
S708282-CAL3
S708282-CAL4
S708282-CAL5
S708282-CAL6
S708282-CAL7
S708282-CAL8
S708282-CAL9
S708282-CALA
S708282-ICV1
S708282-LCV1
S708282-LCV2
S708282-TUN1

S708708

Volatile Organic Compounds

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S708992

Semivolatile Organic Compounds by GCMS

S708992-CCV1
S708992-TUN1

S709003

Volatile Organic Compounds

S709003-CCV1
S709003-TUN1

S709011

Semivolatile Organic Compounds by GC

S709011-CCV1
S709011-CCV2
S709011-CCV3
S709011-CCV4
S709011-IBL1
S709011-IBL2
S709011-IBL3

S709017

Semivolatile Organic Compounds by GCMS

S709017-CCV1
S709017-TUN1

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☑ Final Report
☐ Revised Report

Report Date:
15-Dec-17 12:14

Laboratory Report
SC42193

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Charles Hampton

Project: 202 Franklin St. - Olean, NY
Project #: 4884S-13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Kimberly Laplante
Quality Assurance Manager

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 28 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC42193

Project: 202 Franklin St. - Olean, NY

Project Number: 4884S-13

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC42193-07	Metal Waste Pile-West Comp	Soil	04-Dec-17 00:00	06-Dec-17 13:44
SC42193-08	Metal Waste Pile-East Comp	Soil	04-Dec-17 00:00	06-Dec-17 13:44

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 1.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

Sample Compositing Narrative:

Sample SC42193-07 Container A was composited on December 07, 2017 per client request from: SC42193-01 Container A 50.64g; SC42193-02 Container A 50.53g; SC42193-03 Container A 50.49g.

Sample Compositing Narrative:

Sample SC42193-08 Container A was composited on December 07, 2017 per client request from: SC42193-04 Container A 99.17g; SC42193-05 Container A 98.93g; SC42193-06 Container A 100.02g.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 1311/8270D

Calibration:

1710017

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Aniline
Benzidine
Carbazole

This affected the following samples:

1720422-BLK1
1720422-BS1
1720422-BSD1
1720422-DUP1
1720663-BLK1
1720663-BS1
1720663-BSD1
Metal Waste Pile-East Comp
Metal Waste Pile-West Comp
S708921-ICV1
S710774-CCV1
S710873-CCV1

Laboratory Control Samples:

1720422-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Di-n-octyl phthalate

SW846 1311/8270D

Laboratory Control Samples:

1720422-BSD1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Di-n-octyl phthalate

1720663 BS/BSD

4-Chloroaniline percent recoveries (35/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

4-Nitrophenol percent recoveries (29/29) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Aniline percent recoveries (30/26) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Benzoic acid percent recoveries (15/15) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Benzyl alcohol percent recoveries (42/35) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Bis(2-chloroethoxy)methane percent recoveries (30/31) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Bis(2-chloroethyl)ether percent recoveries (33/29) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Bis(2-chloroisopropyl)ether percent recoveries (41/36) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Butyl benzyl phthalate percent recoveries (41/39) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

SW846 1311/8270D

Laboratory Control Samples:

1720663 BS/BSD

N-Nitrosodimethylamine percent recoveries (36/30) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Phenol percent recoveries (22/20) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

Pyridine percent recoveries (29/26) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

1720663 BSD

2-Chloronaphthalene RPD 31% (20%) is outside individual acceptance criteria.

2-Methylphenol RPD 25% (20%) is outside individual acceptance criteria.

4-Chloro-3-methylphenol RPD 23% (20%) is outside individual acceptance criteria.

Nitrobenzene RPD 25% (20%) is outside individual acceptance criteria.

Duplicates:

1720422-DUP1 *Source: SC42193-08*

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Di-n-octyl phthalate

Samples:

S710774-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (21.1%)
3,3´-Dichlorobenzidine (-44.5%)
4-Chloroaniline (-32.3%)
4-Nitroaniline (-29.5%)
Benzoic acid (-22.4%)
Hexachlorobutadiene (42.9%)
Hexachlorocyclopentadiene (34.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-59.4%)
Aniline (-58.6%)
Benzidine (-84.6%)
Carbazole (-61.5%)

SW846 1311/8270D

Samples:

S710774-CCV1

This affected the following samples:

1720422-BLK1
1720422-BS1
1720422-BSD1
1720422-DUP1

S710873-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2-Methylnaphthalene (20.7%)
3,3´-Dichlorobenzidine (-28.9%)
4-Chloroaniline (-23.8%)
4-Chlorophenyl phenyl ether (23.9%)
Benzo (k) fluoranthene (25.8%)
Benzoic acid (-49.4%)
Bis(2-chloroisopropyl)ether (22.3%)
Hexachlorobutadiene (34.3%)
Hexachlorocyclopentadiene (23.4%)
Nitrobenzene (29.2%)
Pentachlorophenol (-24.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-47.5%)
Aniline (-33.1%)
Benzidine (-75.2%)
Carbazole (-56.7%)

This affected the following samples:

1720663-BLK1
1720663-BS1
1720663-BSD1
Metal Waste Pile-East Comp
Metal Waste Pile-West Comp

SW846 8270D TICS

Blanks:

1720663-BLK1

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1-Hexacosanol

Sample Acceptance Check Form

Client:	Day Environmental, Inc.
Project:	202 Franklin St. - Olean, NY / 4884S-13
Work Order:	SC42193
Sample(s) received on:	12/6/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	07-Dec-17		CMB	1720416	X
	Final pH of leachate	**5.18**		N/A			1	"	"	"	"	"	
Re-analysis of TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	12-Dec-17		CMB	1720653	X
	Final pH of leachate	**5.48**		N/A			1	"	"	"	"	"	
Re-analysis of TCLP Semivolatiles Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 5.00	U	µg/l	5.00	0.691	1	SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	X
208-96-8	Acenaphthylene	< 5.00	U	µg/l	5.00	0.683	1	"	"	"	"	"	X
62-53-3	Aniline	< 5.00	U	µg/l	5.00	1.77	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.00	U	µg/l	5.00	0.608	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00	0.748	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.00	U	µg/l	5.00	1.15	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.00	U	µg/l	5.00	0.536	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.00	U	µg/l	5.00	0.562	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00	0.437	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00	0.530	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00	0.480	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.00	U	µg/l	5.00	0.527	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.00	U	µg/l	5.00	0.780	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00	0.666	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00	0.734	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00	0.778	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00	0.638	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00	0.602	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.00	U	µg/l	5.00	0.438	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.00	U	µg/l	5.00	1.56	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00	0.501	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.00	U	µg/l	5.00	1.12	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.00	U	µg/l	5.00	0.590	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 5.00	U	µg/l	5.00	0.748	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00	0.603	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.00	U	µg/l	5.00	0.532	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00	0.450	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.00	U	µg/l	5.00	0.740	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.562	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.647	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.614	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 5.00	U	µg/l	5.00	0.530	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste Pile-West Comp	4884S-13	Soil	04-Dec-17 00:00	06-Dec-17
SC42193-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Re-analysis of TCLP Semivolatiles													
84-66-2	Diethyl phthalate	< 5.00	U	µg/l	5.00	0.623	1	SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	X
131-11-3	Dimethyl phthalate	< 5.00	U	µg/l	5.00	0.758	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 5.00	U	µg/l	5.00	0.653	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.00	U	µg/l	5.00	0.457	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00	0.319	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 5.00	U	µg/l	5.00	0.561	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00	0.673	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00	0.593	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.00	U	µg/l	5.00	0.406	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.00	U	µg/l	5.00	0.638	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.00	U	µg/l	5.00	0.612	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.00	U	µg/l	5.00	0.571	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/l	5.00	0.388	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00	1.04	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.00	U	µg/l	5.00	0.639	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00	0.580	1	"	"	"	"	"	X
78-59-1	Isophorone	< 5.00	U	µg/l	5.00	0.586	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 5.00	U	µg/l	5.00	0.574	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 5.00	U	µg/l	5.00	0.665	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 10.0	U	µg/l	10.0	0.615	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/l	5.00	0.685	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.00	U	µg/l	5.00	0.606	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.00	U	µg/l	5.00	0.543	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.00	U	µg/l	5.00	0.374	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.00	U	µg/l	5.00	0.690	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 5.00	U	µg/l	5.00	0.465	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 20.0	U	µg/l	20.0	0.838	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00	0.673	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00	0.578	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00	0.651	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 20.0	U	µg/l	20.0	0.373	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.00	U	µg/l	5.00	0.586	1	"	"	"	"	"	X
108-95-2	Phenol	< 5.00	U	µg/l	5.00	0.645	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.00	U	µg/l	5.00	0.610	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.00	U	µg/l	5.00	0.819	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00	0.687	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.00	U	µg/l	5.00	0.733	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00	0.520	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00	0.518	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 5.00	U	µg/l	5.00	0.696	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00	0.725	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*41*			*30-130 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste Pile-West Comp SC42193-07	4884S-13	Soil	04-Dec-17 00:00	06-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Re-analysis of TCLP Semivolatiles													
367-12-4	2-Fluorophenol	30			15-110 %			SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	
4165-60-0	Nitrobenzene-d5	42			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	17			15-110 %			"	"	"	"	"	
1718-51-0	Terphenyl-dl4	52			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	37			15-110 %			"	"	"	"	"	
Re-analysis of Tentatively Identified Compounds													
	Tentatively Identified Compounds	None found		µg/l			1	SW846 8270D TICS	"	"	MSL	"	
General Chemistry Parameters													
	Sample Prep	Completed		N/A			1	SAI SOP	07-Dec-17		BD	1720418	
	% Solids	84.9		%			1	SM2540 G (11) Mod.	08-Dec-17	08-Dec-17	BD	1720464	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste Pile-East Comp	4884S-13	Soil	04-Dec-17 00:00	06-Dec-17
SC42193-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	07-Dec-17		CMB	1720416	X
	Final pH of leachate	**6.06**		N/A			1	"	"	"	"	"	
Re-analysis of TCLP Extraction for Semivolatiles Prepared by method SW846 1311													
	TCLP Extraction	**Completed**		N/A			1	SW846 1311	12-Dec-17		CMB	1720653	X
	Final pH of leachate	**5.39**		N/A			1	"	"	"	"	"	
Re-analysis of TCLP Semivolatiles Prepared by method SW846 3510C													
83-32-9	Acenaphthene	< 5.00	U	µg/l	5.00	0.691	1	SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	X
208-96-8	Acenaphthylene	< 5.00	U	µg/l	5.00	0.683	1	"	"	"	"	"	X
62-53-3	Aniline	< 5.00	U	µg/l	5.00	1.77	1	"	"	"	"	"	X
120-12-7	Anthracene	< 5.00	U	µg/l	5.00	0.608	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00	0.748	1	"	"	"	"	"	
92-87-5	Benzidine	< 5.00	U	µg/l	5.00	1.15	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 5.00	U	µg/l	5.00	0.536	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 5.00	U	µg/l	5.00	0.562	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00	0.437	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00	0.530	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00	0.480	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 5.00	U	µg/l	5.00	0.527	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 5.00	U	µg/l	5.00	0.780	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00	0.666	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00	0.734	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00	0.778	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00	0.638	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00	0.602	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 5.00	U	µg/l	5.00	0.438	1	"	"	"	"	"	X
86-74-8	Carbazole	< 5.00	U	µg/l	5.00	1.56	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00	0.501	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 5.00	U	µg/l	5.00	1.12	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 5.00	U	µg/l	5.00	0.590	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 5.00	U	µg/l	5.00	0.748	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00	0.603	1	"	"	"	"	"	X
218-01-9	Chrysene	< 5.00	U	µg/l	5.00	0.532	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00	0.450	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 5.00	U	µg/l	5.00	0.740	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.562	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.647	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00	0.614	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00	1.99	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 5.00	U	µg/l	5.00	0.530	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste Pile-East Comp	4884S-13	Soil	04-Dec-17 00:00	06-Dec-17
SC42193-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Re-analysis of TCLP Semivolatiles													
84-66-2	Diethyl phthalate	< 5.00	U	µg/l	5.00	0.623	1	SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	X
131-11-3	Dimethyl phthalate	< 5.00	U	µg/l	5.00	0.758	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 5.00	U	µg/l	5.00	0.653	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 5.00	U	µg/l	5.00	0.457	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00	0.319	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 5.00	U	µg/l	5.00	0.561	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00	0.673	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00	0.593	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 5.00	U	µg/l	5.00	0.406	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 5.00	U	µg/l	5.00	0.638	1	"	"	"	"	"	X
86-73-7	Fluorene	< 5.00	U	µg/l	5.00	0.612	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 5.00	U	µg/l	5.00	0.571	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/l	5.00	0.388	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00	1.04	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 5.00	U	µg/l	5.00	0.639	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00	0.580	1	"	"	"	"	"	X
78-59-1	Isophorone	< 5.00	U	µg/l	5.00	0.586	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 5.00	U	µg/l	5.00	0.574	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 5.00	U	µg/l	5.00	0.665	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 10.0	U	µg/l	10.0	0.615	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/l	5.00	0.685	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 5.00	U	µg/l	5.00	0.606	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 5.00	U	µg/l	5.00	0.543	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 5.00	U	µg/l	5.00	0.374	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 5.00	U	µg/l	5.00	0.690	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 5.00	U	µg/l	5.00	0.465	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 20.0	U	µg/l	20.0	0.838	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00	0.673	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00	0.578	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00	0.651	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 20.0	U	µg/l	20.0	0.373	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 5.00	U	µg/l	5.00	0.586	1	"	"	"	"	"	X
108-95-2	Phenol	< 5.00	U	µg/l	5.00	0.645	1	"	"	"	"	"	X
129-00-0	Pyrene	< 5.00	U	µg/l	5.00	0.610	1	"	"	"	"	"	X
110-86-1	Pyridine	< 5.00	U	µg/l	5.00	0.819	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00	0.687	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 5.00	U	µg/l	5.00	0.733	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00	0.520	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00	0.518	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 5.00	U	µg/l	5.00	0.696	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00	0.725	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*74*			*30-130 %*			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Metal Waste Pile-East Comp SC42193-08	4884S-13	Soil	04-Dec-17 00:00	06-Dec-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Re-analysis of TCLP Semivolatiles													
367-12-4	*2-Fluorophenol*	*56*			*15-110 %*			SW846 1311/8270D	13-Dec-17	14-Dec-17	MSL	1720663	
4165-60-0	*Nitrobenzene-d5*	*78*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*34*			*15-110 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*87*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*84*			*15-110 %*			"	"	"	"	"	
Re-analysis of Tentatively Identified Compounds													
	Tentatively Identified Compounds	**None found**		µg/l			1	SW846 8270D TICS	"	"	MSL	"	
General Chemistry Parameters													
	Sample Prep	**Completed**		N/A			1	SAI SOP	07-Dec-17		BD	1720418	
	% Solids	**80.9**		%			1	SM2540 G (11) Mod.	08-Dec-17	08-Dec-17	BD	1720464	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
Blank (1720422-BLK1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 5.00	U	µg/l	5.00						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	**5.90**		µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
Blank (1720422-BLK1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*22.3*		µg/l		*50.5*		*44*	*30-130*		
Surrogate: 2-Fluorophenol	*14.8*		µg/l		*50.5*		*29*	*15-110*		
Surrogate: Nitrobenzene-d5	*20.7*		µg/l		*50.5*		*41*	*30-130*		
Surrogate: Phenol-d5	*10.6*		µg/l		*50.5*		*21*	*15-110*		
Surrogate: Terphenyl-dl4	*26.0*		µg/l		*50.5*		*51*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*22.1*		µg/l		*50.5*		*44*	*15-110*		
LCS (1720422-BS1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Acenaphthene	**19.7**		µg/l	5.00	50.5		39	40-140		
Acenaphthylene	**22.1**		µg/l	5.00	50.5		44	40-140		
Aniline	**15.9**		µg/l	5.00	50.5		31	40-140		
Anthracene	**21.4**		µg/l	5.00	50.5		42	40-140		
Azobenzene/Diphenyldiazene	**21.4**		µg/l	5.00	50.5		42	40-140		
Benzidine	**9.81**		µg/l	5.00	50.5		19	40-140		
Benzo (a) anthracene	**26.1**		µg/l	5.00	50.5		52	40-140		
Benzo (a) pyrene	**27.5**		µg/l	5.00	50.5		54	40-140		
Benzo (b) fluoranthene	**26.1**		µg/l	5.00	50.5		52	40-140		
Benzo (g,h,i) perylene	**23.4**		µg/l	5.00	50.5		46	40-140		
Benzo (k) fluoranthene	**24.1**		µg/l	5.00	50.5		48	40-140		
Benzoic acid	**13.1**		µg/l	5.00	50.5		26	30-130		
Benzyl alcohol	**19.6**		µg/l	5.00	50.5		39	40-140		
Bis(2-chloroethoxy)methane	**12.6**		µg/l	5.00	50.5		25	40-140		
Bis(2-chloroethyl)ether	**13.8**		µg/l	5.00	50.5		27	40-140		
Bis(2-chloroisopropyl)ether	**15.9**		µg/l	5.00	50.5		31	40-140		
Bis(2-ethylhexyl)phthalate	**24.2**		µg/l	5.00	50.5		48	40-140		
4-Bromophenyl phenyl ether	**24.8**		µg/l	5.00	50.5		49	40-140		
Butyl benzyl phthalate	**20.6**		µg/l	5.00	50.5		41	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
LCS (1720422-BS1)							Prepared: 08-Dec-17 Analyzed: 11-Dec-17			
Carbazole	**29.2**		µg/l	5.00	50.5		58	40-140		
4-Chloro-3-methylphenol	**19.5**		µg/l	5.00	50.5		39	30-130		
4-Chloroaniline	**18.5**		µg/l	5.00	50.5		37	40-140		
2-Chloronaphthalene	**28.5**		µg/l	5.00	50.5		56	40-140		
2-Chlorophenol	**20.0**		µg/l	5.00	50.5		40	30-130		
4-Chlorophenyl phenyl ether	**22.4**		µg/l	5.00	50.5		44	40-140		
Chrysene	**24.2**		µg/l	5.00	50.5		48	40-140		
Dibenzo (a,h) anthracene	**23.5**		µg/l	5.00	50.5		47	40-140		
Dibenzofuran	**28.4**		µg/l	5.00	50.5		56	40-140		
1,2-Dichlorobenzene	**23.6**		µg/l	5.00	50.5		47	40-140		
1,3-Dichlorobenzene	**20.8**		µg/l	5.00	50.5		41	40-140		
1,4-Dichlorobenzene	**24.7**		µg/l	5.00	50.5		49	40-140		
3,3´-Dichlorobenzidine	**23.1**		µg/l	5.00	50.5		46	40-140		
2,4-Dichlorophenol	**22.9**		µg/l	5.00	50.5		45	30-130		
Diethyl phthalate	**22.5**		µg/l	5.00	50.5		45	40-140		
Dimethyl phthalate	**22.1**		µg/l	5.00	50.5		44	40-140		
2,4-Dimethylphenol	**17.6**		µg/l	5.00	50.5		35	30-130		
Di-n-butyl phthalate	**24.4**		µg/l	5.00	50.5		48	40-140		
4,6-Dinitro-2-methylphenol	**13.3**		µg/l	5.00	50.5		26	30-130		
2,4-Dinitrophenol	**9.87**		µg/l	5.00	50.5		20	30-130		
2,4-Dinitrotoluene	**23.0**		µg/l	5.00	50.5		46	40-140		
2,6-Dinitrotoluene	**26.4**		µg/l	5.00	50.5		52	40-140		
Di-n-octyl phthalate	**27.5**	B	µg/l	5.00	50.5		54	40-140		
Fluoranthene	**26.4**		µg/l	5.00	50.5		52	40-140		
Fluorene	**22.2**		µg/l	5.00	50.5		44	40-140		
Hexachlorobenzene	**33.2**		µg/l	5.00	50.5		66	40-140		
Hexachlorobutadiene	**25.5**		µg/l	5.00	50.5		51	40-140		
Hexachlorocyclopentadiene	**25.9**		µg/l	5.00	50.5		51	40-140		
Hexachloroethane	**27.4**		µg/l	5.00	50.5		54	40-140		
Indeno (1,2,3-cd) pyrene	**25.3**		µg/l	5.00	50.5		50	40-140		
Isophorone	**19.8**		µg/l	5.00	50.5		39	40-140		
2-Methylnaphthalene	**23.4**		µg/l	5.00	50.5		46	40-140		
2-Methylphenol	**20.1**		µg/l	5.00	50.5		40	30-130		
3 & 4-Methylphenol	**22.1**		µg/l	10.0	50.5		44	30-130		
Naphthalene	**20.5**		µg/l	5.00	50.5		41	40-140		
2-Nitroaniline	**19.1**		µg/l	5.00	50.5		38	40-140		
3-Nitroaniline	**21.9**		µg/l	5.00	50.5		43	40-140		
4-Nitroaniline	**30.4**		µg/l	5.00	50.5		60	40-140		
Nitrobenzene	**23.9**		µg/l	5.00	50.5		47	40-140		
2-Nitrophenol	**20.3**		µg/l	5.00	50.5		40	30-130		
4-Nitrophenol	**14.6**	J	µg/l	20.0	50.5		29	30-130		
N-Nitrosodimethylamine	**15.4**		µg/l	5.00	50.5		30	40-140		
N-Nitrosodi-n-propylamine	**21.8**		µg/l	5.00	50.5		43	40-140		
N-Nitrosodiphenylamine	**22.6**		µg/l	5.00	50.5		45	40-140		
Pentachlorophenol	**19.0**	J	µg/l	20.0	50.5		38	30-130		
Phenanthrene	**22.4**		µg/l	5.00	50.5		44	40-140		
Phenol	**9.45**		µg/l	5.00	50.5		19	30-130		
Pyrene	**20.9**		µg/l	5.00	50.5		41	40-140		
Pyridine	**13.8**		µg/l	5.00	50.5		27	40-140		
1-Methylnaphthalene	**22.2**		µg/l	5.00	50.5		44	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
LCS (1720422-BS1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
1,2,4-Trichlorobenzene	**26.3**		µg/l	5.00	50.5		52	40-140		
2,4,5-Trichlorophenol	**28.8**		µg/l	5.00	50.5		57	30-130		
2,4,6-Trichlorophenol	**25.6**		µg/l	5.00	50.5		51	30-130		
Pentachloronitrobenzene	**35.5**		µg/l	5.00	50.5		70	40-140		
1,2,4,5-Tetrachlorobenzene	**28.2**		µg/l	5.00	50.5		56	40-140		
Surrogate: 2-Fluorobiphenyl	*22.0*		µg/l		*50.5*		*44*	*30-130*		
Surrogate: 2-Fluorophenol	*13.1*		µg/l		*50.5*		*26*	*15-110*		
Surrogate: Nitrobenzene-d5	*20.3*		µg/l		*50.5*		*40*	*30-130*		
Surrogate: Phenol-d5	*10.5*		µg/l		*50.5*		*21*	*15-110*		
Surrogate: Terphenyl-dl4	*22.9*		µg/l		*50.5*		*45*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*22.6*		µg/l		*50.5*		*45*	*15-110*		
LCS Dup (1720422-BSD1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Acenaphthene	**23.5**		µg/l	5.00	50.5		47	40-140	18	20
Acenaphthylene	**23.0**		µg/l	5.00	50.5		46	40-140	4	20
Aniline	**15.9**		µg/l	5.00	50.5		31	40-140	0	20
Anthracene	**22.3**		µg/l	5.00	50.5		44	40-140	4	20
Azobenzene/Diphenyldiazene	**19.3**		µg/l	5.00	50.5		38	40-140	10	20
Benzidine	**7.19**		µg/l	5.00	50.5		14	40-140	31	20
Benzo (a) anthracene	**24.5**		µg/l	5.00	50.5		49	40-140	6	20
Benzo (a) pyrene	**28.0**		µg/l	5.00	50.5		55	40-140	2	20
Benzo (b) fluoranthene	**25.7**		µg/l	5.00	50.5		51	40-140	2	20
Benzo (g,h,i) perylene	**24.0**		µg/l	5.00	50.5		48	40-140	3	20
Benzo (k) fluoranthene	**25.1**		µg/l	5.00	50.5		50	40-140	4	20
Benzoic acid	**13.7**		µg/l	5.00	50.5		27	30-130	4	20
Benzyl alcohol	**20.0**		µg/l	5.00	50.5		40	40-140	2	20
Bis(2-chloroethoxy)methane	**13.1**		µg/l	5.00	50.5		26	40-140	4	20
Bis(2-chloroethyl)ether	**11.7**		µg/l	5.00	50.5		23	40-140	16	20
Bis(2-chloroisopropyl)ether	**16.1**		µg/l	5.00	50.5		32	40-140	2	20
Bis(2-ethylhexyl)phthalate	**21.8**		µg/l	5.00	50.5		43	40-140	11	20
4-Bromophenyl phenyl ether	**23.9**		µg/l	5.00	50.5		47	40-140	4	20
Butyl benzyl phthalate	**19.7**		µg/l	5.00	50.5		39	40-140	4	20
Carbazole	**25.6**		µg/l	5.00	50.5		51	40-140	13	20
4-Chloro-3-methylphenol	**22.5**		µg/l	5.00	50.5		45	30-130	15	20
4-Chloroaniline	**20.8**		µg/l	5.00	50.5		41	40-140	12	20
2-Chloronaphthalene	**25.1**		µg/l	5.00	50.5		50	40-140	13	20
2-Chlorophenol	**18.7**		µg/l	5.00	50.5		37	30-130	7	20
4-Chlorophenyl phenyl ether	**23.9**		µg/l	5.00	50.5		47	40-140	7	20
Chrysene	**24.3**		µg/l	5.00	50.5		48	40-140	0.4	20
Dibenzo (a,h) anthracene	**25.6**		µg/l	5.00	50.5		51	40-140	8	20
Dibenzofuran	**28.6**		µg/l	5.00	50.5		57	40-140	0.6	20
1,2-Dichlorobenzene	**22.4**		µg/l	5.00	50.5		44	40-140	5	20
1,3-Dichlorobenzene	**20.3**		µg/l	5.00	50.5		40	40-140	3	20
1,4-Dichlorobenzene	**22.4**		µg/l	5.00	50.5		44	40-140	10	20
3,3´-Dichlorobenzidine	**24.2**		µg/l	5.00	50.5		48	40-140	5	20
2,4-Dichlorophenol	**23.1**		µg/l	5.00	50.5		46	30-130	0.6	20
Diethyl phthalate	**24.0**		µg/l	5.00	50.5		48	40-140	6	20
Dimethyl phthalate	**23.0**		µg/l	5.00	50.5		46	40-140	4	20
2,4-Dimethylphenol	**20.3**		µg/l	5.00	50.5		40	30-130	14	20
Di-n-butyl phthalate	**22.3**		µg/l	5.00	50.5		44	40-140	9	20
4,6-Dinitro-2-methylphenol	**15.2**		µg/l	5.00	50.5		30	30-130	14	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
LCS Dup (1720422-BSD1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
2,4-Dinitrophenol	**15.5**		µg/l	5.00	50.5		31	30-130	44	20
2,4-Dinitrotoluene	**25.3**		µg/l	5.00	50.5		50	40-140	9	20
2,6-Dinitrotoluene	**25.7**		µg/l	5.00	50.5		51	40-140	3	20
Di-n-octyl phthalate	**27.6**	B	µg/l	5.00	50.5		55	40-140	0.1	20
Fluoranthene	**26.0**		µg/l	5.00	50.5		51	40-140	2	20
Fluorene	**22.7**		µg/l	5.00	50.5		45	40-140	2	20
Hexachlorobenzene	**27.6**		µg/l	5.00	50.5		55	40-140	18	20
Hexachlorobutadiene	**30.5**		µg/l	5.00	50.5		60	40-140	18	20
Hexachlorocyclopentadiene	**30.5**		µg/l	5.00	50.5		60	40-140	16	20
Hexachloroethane	**25.5**		µg/l	5.00	50.5		51	40-140	7	20
Indeno (1,2,3-cd) pyrene	**24.6**		µg/l	5.00	50.5		49	40-140	3	20
Isophorone	**20.3**		µg/l	5.00	50.5		40	40-140	3	20
2-Methylnaphthalene	**25.2**		µg/l	5.00	50.5		50	40-140	7	20
2-Methylphenol	**20.9**		µg/l	5.00	50.5		41	30-130	4	20
3 & 4-Methylphenol	**18.8**		µg/l	10.0	50.5		37	30-130	16	20
Naphthalene	**22.0**		µg/l	5.00	50.5		44	40-140	7	20
2-Nitroaniline	**25.9**		µg/l	5.00	50.5		51	40-140	30	20
3-Nitroaniline	**25.6**		µg/l	5.00	50.5		51	40-140	16	20
4-Nitroaniline	**27.5**		µg/l	5.00	50.5		54	40-140	10	20
Nitrobenzene	**26.5**		µg/l	5.00	50.5		52	40-140	10	20
2-Nitrophenol	**20.4**		µg/l	5.00	50.5		40	30-130	0.4	20
4-Nitrophenol	**16.1**	J	µg/l	20.0	50.5		32	30-130	9	20
N-Nitrosodimethylamine	**13.0**		µg/l	5.00	50.5		26	40-140	17	20
N-Nitrosodi-n-propylamine	**19.5**		µg/l	5.00	50.5		39	40-140	11	20
N-Nitrosodiphenylamine	**20.0**		µg/l	5.00	50.5		40	40-140	13	20
Pentachlorophenol	**15.9**	J	µg/l	20.0	50.5		31	30-130	18	20
Phenanthrene	**23.2**		µg/l	5.00	50.5		46	40-140	4	20
Phenol	**8.40**		µg/l	5.00	50.5		17	30-130	12	20
Pyrene	**22.4**		µg/l	5.00	50.5		44	40-140	7	20
Pyridine	**12.1**		µg/l	5.00	50.5		24	40-140	13	20
1,2,4-Trichlorobenzene	**27.3**		µg/l	5.00	50.5		54	40-140	4	20
1-Methylnaphthalene	**22.0**		µg/l	5.00	50.5		44	40-140	1	20
2,4,5-Trichlorophenol	**29.5**		µg/l	5.00	50.5		58	30-130	3	20
2,4,6-Trichlorophenol	**30.9**		µg/l	5.00	50.5		61	30-130	19	20
Pentachloronitrobenzene	**31.6**		µg/l	5.00	50.5		63	40-140	12	20
1,2,4,5-Tetrachlorobenzene	**28.5**		µg/l	5.00	50.5		56	40-140	1	20
Surrogate: 2-Fluorobiphenyl	*23.3*		µg/l		*50.5*		*46*	*30-130*		
Surrogate: 2-Fluorophenol	*11.3*		µg/l		*50.5*		*22*	*15-110*		
Surrogate: Nitrobenzene-d5	*20.5*		µg/l		*50.5*		*41*	*30-130*		
Surrogate: Phenol-d5	*9.02*		µg/l		*50.5*		*18*	*15-110*		
Surrogate: Terphenyl-dl4	*21.7*		µg/l		*50.5*		*43*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*21.5*		µg/l		*50.5*		*43*	*15-110*		
Duplicate (1720422-DUP1)			**Source: SC42193-08**		Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Acenaphthene	< 5.00	U	µg/l	5.00		BRL				20
Acenaphthylene	< 5.00	U	µg/l	5.00		BRL				20
Aniline	< 5.00	U	µg/l	5.00		BRL				20
Anthracene	< 5.00	U	µg/l	5.00		BRL				20
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00		BRL				20
Benzidine	< 5.00	U	µg/l	5.00		BRL				20
Benzo (a) anthracene	< 5.00	U	µg/l	5.00		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
Duplicate (1720422-DUP1)			**Source: SC42193-08**		Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Benzo (a) pyrene	< 5.00	U	µg/l	5.00		BRL				20
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00		BRL				20
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00		BRL				20
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00		BRL				20
Benzoic acid	< 5.00	U	µg/l	5.00		BRL				20
Benzyl alcohol	< 5.00	U	µg/l	5.00		BRL				20
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00		BRL				20
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00		BRL				20
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00		BRL				20
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00		1.84				20
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00		BRL				20
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00		BRL				20
Carbazole	< 5.00	U	µg/l	5.00		BRL				20
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00		BRL				20
4-Chloroaniline	< 5.00	U	µg/l	5.00		BRL				20
2-Chloronaphthalene	< 5.00	U	µg/l	5.00		BRL				20
2-Chlorophenol	< 5.00	U	µg/l	5.00		BRL				20
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00		BRL				20
Chrysene	< 5.00	U	µg/l	5.00		BRL				20
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00		BRL				20
Dibenzofuran	< 5.00	U	µg/l	5.00		BRL				20
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00		BRL				20
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00		BRL				20
Diethyl phthalate	< 5.00	U	µg/l	5.00		BRL				20
Dimethyl phthalate	< 5.00	U	µg/l	5.00		BRL				20
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00		BRL				20
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00		BRL				20
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00		BRL				20
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00		BRL				20
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00		BRL				20
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00		BRL				20
Di-n-octyl phthalate	**2.66**	J, B	µg/l	5.00		29.7			167	20
Fluoranthene	< 5.00	U	µg/l	5.00		BRL				20
Fluorene	< 5.00	U	µg/l	5.00		BRL				20
Hexachlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
Hexachlorobutadiene	< 5.00	U	µg/l	5.00		BRL				20
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00		BRL				20
Hexachloroethane	< 5.00	U	µg/l	5.00		BRL				20
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00		BRL				20
Isophorone	< 5.00	U	µg/l	5.00		BRL				20
2-Methylnaphthalene	< 5.00	U	µg/l	5.00		BRL				20
2-Methylphenol	< 5.00	U	µg/l	5.00		BRL				20
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0		BRL				20
Naphthalene	< 5.00	U	µg/l	5.00		BRL				20
2-Nitroaniline	< 5.00	U	µg/l	5.00		BRL				20
3-Nitroaniline	< 5.00	U	µg/l	5.00		BRL				20
4-Nitroaniline	< 5.00	U	µg/l	5.00		BRL				20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720422 - SW846 3510C										
Duplicate (1720422-DUP1)			**Source: SC42193-08**		Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
Nitrobenzene	< 5.00	U	µg/l	5.00		BRL				20
2-Nitrophenol	< 5.00	U	µg/l	5.00		BRL				20
4-Nitrophenol	< 20.0	U	µg/l	20.0		BRL				20
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00		BRL				20
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00		BRL				20
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00		BRL				20
Pentachlorophenol	< 20.0	U	µg/l	20.0		BRL				20
Phenanthrene	< 5.00	U	µg/l	5.00		BRL				20
Phenol	< 5.00	U	µg/l	5.00		BRL				20
Pyrene	< 5.00	U	µg/l	5.00		BRL				20
Pyridine	< 5.00	U	µg/l	5.00		BRL				20
1-Methylnaphthalene	< 5.00	U	µg/l	5.00		BRL				20
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00		BRL				20
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00		BRL				20
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00		BRL				20
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00		BRL				20
Surrogate: 2-Fluorobiphenyl	*27.9*		µg/l		*48.1*		*58*	*30-130*		
Surrogate: 2-Fluorophenol	*13.2*		µg/l		*48.1*		*27*	*15-110*		
Surrogate: Nitrobenzene-d5	*25.9*		µg/l		*48.1*		*54*	*30-130*		
Surrogate: Phenol-d5	*8.95*		µg/l		*48.1*		*19*	*15-110*		
Surrogate: Terphenyl-dl4	*26.2*		µg/l		*48.1*		*55*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*28.6*		µg/l		*48.1*		*59*	*15-110*		
Batch 1720663 - SW846 3510C										
Blank (1720663-BLK1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Acenaphthene	< 5.00	U	µg/l	5.00						
Acenaphthylene	< 5.00	U	µg/l	5.00						
Aniline	< 5.00	U	µg/l	5.00						
Anthracene	< 5.00	U	µg/l	5.00						
Azobenzene/Diphenyldiazene	< 5.00	U	µg/l	5.00						
Benzidine	< 5.00	U	µg/l	5.00						
Benzo (a) anthracene	< 5.00	U	µg/l	5.00						
Benzo (a) pyrene	< 5.00	U	µg/l	5.00						
Benzo (b) fluoranthene	< 5.00	U	µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00	U	µg/l	5.00						
Benzo (k) fluoranthene	< 5.00	U	µg/l	5.00						
Benzoic acid	< 5.00	U	µg/l	5.00						
Benzyl alcohol	< 5.00	U	µg/l	5.00						
Bis(2-chloroethoxy)methane	< 5.00	U	µg/l	5.00						
Bis(2-chloroethyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-chloroisopropyl)ether	< 5.00	U	µg/l	5.00						
Bis(2-ethylhexyl)phthalate	< 5.00	U	µg/l	5.00						
4-Bromophenyl phenyl ether	< 5.00	U	µg/l	5.00						
Butyl benzyl phthalate	< 5.00	U	µg/l	5.00						
Carbazole	< 5.00	U	µg/l	5.00						
4-Chloro-3-methylphenol	< 5.00	U	µg/l	5.00						
4-Chloroaniline	< 5.00	U	µg/l	5.00						
2-Chloronaphthalene	< 5.00	U	µg/l	5.00						
2-Chlorophenol	< 5.00	U	µg/l	5.00						
4-Chlorophenyl phenyl ether	< 5.00	U	µg/l	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720663 - SW846 3510C										
Blank (1720663-BLK1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Chrysene	< 5.00	U	µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00	U	µg/l	5.00						
Dibenzofuran	< 5.00	U	µg/l	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/l	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/l	5.00						
3,3´-Dichlorobenzidine	< 5.00	U	µg/l	5.00						
2,4-Dichlorophenol	< 5.00	U	µg/l	5.00						
Diethyl phthalate	< 5.00	U	µg/l	5.00						
Dimethyl phthalate	< 5.00	U	µg/l	5.00						
2,4-Dimethylphenol	< 5.00	U	µg/l	5.00						
Di-n-butyl phthalate	< 5.00	U	µg/l	5.00						
4,6-Dinitro-2-methylphenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrophenol	< 5.00	U	µg/l	5.00						
2,4-Dinitrotoluene	< 5.00	U	µg/l	5.00						
2,6-Dinitrotoluene	< 5.00	U	µg/l	5.00						
Di-n-octyl phthalate	< 5.00	U	µg/l	5.00						
Fluoranthene	< 5.00	U	µg/l	5.00						
Fluorene	< 5.00	U	µg/l	5.00						
Hexachlorobenzene	< 5.00	U	µg/l	5.00						
Hexachlorobutadiene	< 5.00	U	µg/l	5.00						
Hexachlorocyclopentadiene	< 5.00	U	µg/l	5.00						
Hexachloroethane	< 5.00	U	µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00	U	µg/l	5.00						
Isophorone	< 5.00	U	µg/l	5.00						
2-Methylnaphthalene	< 5.00	U	µg/l	5.00						
2-Methylphenol	< 5.00	U	µg/l	5.00						
3 & 4-Methylphenol	< 10.0	U	µg/l	10.0						
Naphthalene	< 5.00	U	µg/l	5.00						
2-Nitroaniline	< 5.00	U	µg/l	5.00						
3-Nitroaniline	< 5.00	U	µg/l	5.00						
4-Nitroaniline	< 5.00	U	µg/l	5.00						
Nitrobenzene	< 5.00	U	µg/l	5.00						
2-Nitrophenol	< 5.00	U	µg/l	5.00						
4-Nitrophenol	< 20.0	U	µg/l	20.0						
N-Nitrosodimethylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodi-n-propylamine	< 5.00	U	µg/l	5.00						
N-Nitrosodiphenylamine	< 5.00	U	µg/l	5.00						
Pentachlorophenol	< 20.0	U	µg/l	20.0						
Phenanthrene	< 5.00	U	µg/l	5.00						
Phenol	< 5.00	U	µg/l	5.00						
Pyrene	< 5.00	U	µg/l	5.00						
Pyridine	< 5.00	U	µg/l	5.00						
1-Methylnaphthalene	< 5.00	U	µg/l	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/l	5.00						
2,4,5-Trichlorophenol	< 5.00	U	µg/l	5.00						
2,4,6-Trichlorophenol	< 5.00	U	µg/l	5.00						
Pentachloronitrobenzene	< 5.00	U	µg/l	5.00						
1,2,4,5-Tetrachlorobenzene	< 5.00	U	µg/l	5.00						
Surrogate: 2-Fluorobiphenyl	*16.2*		µg/l		*50.5*		*32*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720663 - SW846 3510C										
Blank (1720663-BLK1)						Prepared: 13-Dec-17 Analyzed: 14-Dec-17				
Surrogate: 2-Fluorophenol	*14.9*		µg/l		*50.5*		*29*	*15-110*		
Surrogate: Nitrobenzene-d5	*20.9*		µg/l		*50.5*		*41*	*30-130*		
Surrogate: Phenol-d5	*9.47*		µg/l		*50.5*		*19*	*15-110*		
Surrogate: Terphenyl-dl4	*25.2*		µg/l		*50.5*		*50*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*19.0*		µg/l		*50.5*		*38*	*15-110*		
LCS (1720663-BS1)						Prepared: 13-Dec-17 Analyzed: 14-Dec-17				
Acenaphthene	**23.1**		µg/l	5.00	50.5		46	40-140		
Acenaphthylene	**25.8**		µg/l	5.00	50.5		51	40-140		
Aniline	**15.4**	QC2	µg/l	5.00	50.5		30	40-140		
Anthracene	**28.5**		µg/l	5.00	50.5		56	40-140		
Azobenzene/Diphenyldiazene	**24.8**		µg/l	5.00	50.5		49	40-140		
Benzidine	**21.7**		µg/l	5.00	50.5		43	40-140		
Benzo (a) anthracene	**25.6**		µg/l	5.00	50.5		51	40-140		
Benzo (a) pyrene	**26.1**		µg/l	5.00	50.5		52	40-140		
Benzo (b) fluoranthene	**20.9**		µg/l	5.00	50.5		41	40-140		
Benzo (g,h,i) perylene	**26.8**		µg/l	5.00	50.5		53	40-140		
Benzo (k) fluoranthene	**24.6**		µg/l	5.00	50.5		49	40-140		
Benzoic acid	**7.55**	QC2	µg/l	5.00	50.5		15	30-130		
Benzyl alcohol	**21.2**		µg/l	5.00	50.5		42	40-140		
Bis(2-chloroethoxy)methane	**15.2**	QC2	µg/l	5.00	50.5		30	40-140		
Bis(2-chloroethyl)ether	**16.6**	QC2	µg/l	5.00	50.5		33	40-140		
Bis(2-chloroisopropyl)ether	**20.7**		µg/l	5.00	50.5		41	40-140		
Bis(2-ethylhexyl)phthalate	**23.4**		µg/l	5.00	50.5		46	40-140		
4-Bromophenyl phenyl ether	**25.4**		µg/l	5.00	50.5		50	40-140		
Butyl benzyl phthalate	**20.8**		µg/l	5.00	50.5		41	40-140		
Carbazole	**30.0**		µg/l	5.00	50.5		59	40-140		
4-Chloro-3-methylphenol	**22.5**		µg/l	5.00	50.5		45	30-130		
4-Chloroaniline	**17.5**	QC2	µg/l	5.00	50.5		35	40-140		
2-Chloronaphthalene	**25.2**		µg/l	5.00	50.5		50	40-140		
2-Chlorophenol	**22.8**		µg/l	5.00	50.5		45	30-130		
4-Chlorophenyl phenyl ether	**25.1**		µg/l	5.00	50.5		50	40-140		
Chrysene	**28.8**		µg/l	5.00	50.5		57	40-140		
Dibenzo (a,h) anthracene	**25.5**		µg/l	5.00	50.5		51	40-140		
Dibenzofuran	**28.5**		µg/l	5.00	50.5		56	40-140		
1,2-Dichlorobenzene	**23.5**		µg/l	5.00	50.5		47	40-140		
1,3-Dichlorobenzene	**21.2**		µg/l	5.00	50.5		42	40-140		
1,4-Dichlorobenzene	**23.6**		µg/l	5.00	50.5		47	40-140		
3,3´-Dichlorobenzidine	**31.1**		µg/l	5.00	50.5		61	40-140		
2,4-Dichlorophenol	**25.4**		µg/l	5.00	50.5		50	30-130		
Diethyl phthalate	**25.8**		µg/l	5.00	50.5		51	40-140		
Dimethyl phthalate	**26.9**		µg/l	5.00	50.5		53	40-140		
2,4-Dimethylphenol	**19.9**		µg/l	5.00	50.5		39	30-130		
Di-n-butyl phthalate	**25.4**		µg/l	5.00	50.5		50	40-140		
4,6-Dinitro-2-methylphenol	**22.1**		µg/l	5.00	50.5		44	30-130		
2,4-Dinitrophenol	**17.2**		µg/l	5.00	50.5		34	30-130		
2,4-Dinitrotoluene	**26.1**		µg/l	5.00	50.5		52	40-140		
2,6-Dinitrotoluene	**29.6**		µg/l	5.00	50.5		59	40-140		
Di-n-octyl phthalate	**26.1**		µg/l	5.00	50.5		52	40-140		
Fluoranthene	**32.7**		µg/l	5.00	50.5		65	40-140		
Fluorene	**23.5**		µg/l	5.00	50.5		46	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720663 - SW846 3510C										
LCS (1720663-BS1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Hexachlorobenzene	**32.7**		µg/l	5.00	50.5		65	40-140		
Hexachlorobutadiene	**25.3**		µg/l	5.00	50.5		50	40-140		
Hexachlorocyclopentadiene	**25.4**		µg/l	5.00	50.5		50	40-140		
Hexachloroethane	**25.5**		µg/l	5.00	50.5		50	40-140		
Indeno (1,2,3-cd) pyrene	**25.1**		µg/l	5.00	50.5		50	40-140		
Isophorone	**21.8**		µg/l	5.00	50.5		43	40-140		
2-Methylnaphthalene	**27.8**		µg/l	5.00	50.5		55	40-140		
2-Methylphenol	**22.3**		µg/l	5.00	50.5		44	30-130		
3 & 4-Methylphenol	**20.5**		µg/l	10.0	50.5		41	30-130		
Naphthalene	**21.3**		µg/l	5.00	50.5		42	40-140		
2-Nitroaniline	**22.8**		µg/l	5.00	50.5		45	40-140		
3-Nitroaniline	**22.5**		µg/l	5.00	50.5		44	40-140		
4-Nitroaniline	**31.0**		µg/l	5.00	50.5		61	40-140		
Nitrobenzene	**24.5**		µg/l	5.00	50.5		48	40-140		
2-Nitrophenol	**21.5**		µg/l	5.00	50.5		43	30-130		
4-Nitrophenol	**14.6**	QC2, J	µg/l	20.0	50.5		29	30-130		
N-Nitrosodimethylamine	**18.1**	QC2	µg/l	5.00	50.5		36	40-140		
N-Nitrosodi-n-propylamine	**20.2**		µg/l	5.00	50.5		40	40-140		
N-Nitrosodiphenylamine	**26.3**		µg/l	5.00	50.5		52	40-140		
Pentachlorophenol	**18.6**	J	µg/l	20.0	50.5		37	30-130		
Phenanthrene	**24.4**		µg/l	5.00	50.5		48	40-140		
Phenol	**11.0**	QC2	µg/l	5.00	50.5		22	30-130		
Pyrene	**26.0**		µg/l	5.00	50.5		51	40-140		
Pyridine	**14.7**	QC2	µg/l	5.00	50.5		29	40-140		
1,2,4-Trichlorobenzene	**24.5**		µg/l	5.00	50.5		49	40-140		
1-Methylnaphthalene	**23.7**		µg/l	5.00	50.5		47	40-140		
2,4,5-Trichlorophenol	**30.9**		µg/l	5.00	50.5		61	30-130		
2,4,6-Trichlorophenol	**28.2**		µg/l	5.00	50.5		56	30-130		
Pentachloronitrobenzene	**36.5**		µg/l	5.00	50.5		72	40-140		
1,2,4,5-Tetrachlorobenzene	**30.8**		µg/l	5.00	50.5		61	40-140		
Surrogate: 2-Fluorobiphenyl	*26.6*		µg/l		*50.5*		*53*	*30-130*		
Surrogate: 2-Fluorophenol	*14.4*		µg/l		*50.5*		*28*	*15-110*		
Surrogate: Nitrobenzene-d5	*24.2*		µg/l		*50.5*		*48*	*30-130*		
Surrogate: Phenol-d5	*12.8*		µg/l		*50.5*		*25*	*15-110*		
Surrogate: Terphenyl-dl4	*24.6*		µg/l		*50.5*		*49*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*27.9*		µg/l		*50.5*		*55*	*15-110*		
LCS Dup (1720663-BSD1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Acenaphthene	**21.3**		µg/l	5.00	50.0		43	40-140	8	20
Acenaphthylene	**24.9**		µg/l	5.00	50.0		50	40-140	4	20
Aniline	**12.8**	QC2	µg/l	5.00	50.0		26	40-140	19	20
Anthracene	**27.7**		µg/l	5.00	50.0		55	40-140	3	20
Azobenzene/Diphenyldiazene	**25.2**		µg/l	5.00	50.0		50	40-140	1	20
Benzidine	**23.3**		µg/l	5.00	50.0		47	40-140	7	20
Benzo (a) anthracene	**24.1**		µg/l	5.00	50.0		48	40-140	6	20
Benzo (a) pyrene	**25.2**		µg/l	5.00	50.0		50	40-140	3	20
Benzo (b) fluoranthene	**22.8**		µg/l	5.00	50.0		46	40-140	9	20
Benzo (g,h,i) perylene	**23.9**		µg/l	5.00	50.0		48	40-140	11	20
Benzo (k) fluoranthene	**21.6**		µg/l	5.00	50.0		43	40-140	13	20
Benzoic acid	**7.35**	QC2	µg/l	5.00	50.0		15	30-130	3	20
Benzyl alcohol	**17.7**	QM9	µg/l	5.00	50.0		35	40-140	18	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720663 - SW846 3510C										
LCS Dup (1720663-BSD1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Bis(2-chloroethoxy)methane	**15.6**	QC2	µg/l	5.00	50.0		31	40-140	3	20
Bis(2-chloroethyl)ether	**14.4**	QC2	µg/l	5.00	50.0		29	40-140	14	20
Bis(2-chloroisopropyl)ether	**17.9**	QM9	µg/l	5.00	50.0		36	40-140	15	20
Bis(2-ethylhexyl)phthalate	**24.8**		µg/l	5.00	50.0		50	40-140	6	20
4-Bromophenyl phenyl ether	**23.9**		µg/l	5.00	50.0		48	40-140	6	20
Butyl benzyl phthalate	**19.6**	QM9	µg/l	5.00	50.0		39	40-140	6	20
Carbazole	**32.7**		µg/l	5.00	50.0		65	40-140	9	20
4-Chloro-3-methylphenol	**28.3**	QR2	µg/l	5.00	50.0		57	30-130	23	20
4-Chloroaniline	**18.0**	QC2	µg/l	5.00	50.0		36	40-140	2	20
2-Chloronaphthalene	**34.5**	QR2	µg/l	5.00	50.0		69	40-140	31	20
2-Chlorophenol	**20.9**		µg/l	5.00	50.0		42	30-130	9	20
4-Chlorophenyl phenyl ether	**29.0**		µg/l	5.00	50.0		58	40-140	15	20
Chrysene	**24.7**		µg/l	5.00	50.0		49	40-140	15	20
Dibenzo (a,h) anthracene	**25.8**		µg/l	5.00	50.0		52	40-140	1	20
Dibenzofuran	**28.4**		µg/l	5.00	50.0		57	40-140	0.2	20
1,2-Dichlorobenzene	**20.6**		µg/l	5.00	50.0		41	40-140	14	20
1,3-Dichlorobenzene	**21.1**		µg/l	5.00	50.0		42	40-140	0.7	20
1,4-Dichlorobenzene	**20.9**		µg/l	5.00	50.0		42	40-140	12	20
3,3´-Dichlorobenzidine	**26.8**		µg/l	5.00	50.0		54	40-140	15	20
2,4-Dichlorophenol	**28.3**		µg/l	5.00	50.0		57	30-130	11	20
Diethyl phthalate	**30.1**		µg/l	5.00	50.0		60	40-140	16	20
Dimethyl phthalate	**25.4**		µg/l	5.00	50.0		51	40-140	6	20
2,4-Dimethylphenol	**20.9**		µg/l	5.00	50.0		42	30-130	5	20
Di-n-butyl phthalate	**28.6**		µg/l	5.00	50.0		57	40-140	12	20
4,6-Dinitro-2-methylphenol	**21.2**		µg/l	5.00	50.0		42	30-130	4	20
2,4-Dinitrophenol	**17.2**		µg/l	5.00	50.0		34	30-130	0.1	20
2,4-Dinitrotoluene	**25.9**		µg/l	5.00	50.0		52	40-140	0.7	20
2,6-Dinitrotoluene	**28.4**		µg/l	5.00	50.0		57	40-140	4	20
Di-n-octyl phthalate	**25.1**		µg/l	5.00	50.0		50	40-140	4	20
Fluoranthene	**30.3**		µg/l	5.00	50.0		61	40-140	8	20
Fluorene	**24.7**		µg/l	5.00	50.0		49	40-140	5	20
Hexachlorobenzene	**31.5**		µg/l	5.00	50.0		63	40-140	4	20
Hexachlorobutadiene	**28.6**		µg/l	5.00	50.0		57	40-140	12	20
Hexachlorocyclopentadiene	**28.3**		µg/l	5.00	50.0		57	40-140	11	20
Hexachloroethane	**25.4**		µg/l	5.00	50.0		51	40-140	0.4	20
Indeno (1,2,3-cd) pyrene	**26.6**		µg/l	5.00	50.0		53	40-140	6	20
Isophorone	**23.4**		µg/l	5.00	50.0		47	40-140	7	20
2-Methylnaphthalene	**29.8**		µg/l	5.00	50.0		60	40-140	7	20
2-Methylphenol	**17.4**	QR2	µg/l	5.00	50.0		35	30-130	25	20
3 & 4-Methylphenol	**20.4**		µg/l	10.0	50.0		41	30-130	0.8	20
Naphthalene	**21.4**		µg/l	5.00	50.0		43	40-140	0.8	20
2-Nitroaniline	**27.9**		µg/l	5.00	50.0		56	40-140	20	20
3-Nitroaniline	**21.2**		µg/l	5.00	50.0		42	40-140	6	20
4-Nitroaniline	**28.8**		µg/l	5.00	50.0		58	40-140	7	20
Nitrobenzene	**31.6**	QR2	µg/l	5.00	50.0		63	40-140	25	20
2-Nitrophenol	**25.5**		µg/l	5.00	50.0		51	30-130	17	20
4-Nitrophenol	**14.6**	QC2, J	µg/l	20.0	50.0		29	30-130	0.5	20
N-Nitrosodimethylamine	**15.2**	QC2	µg/l	5.00	50.0		30	40-140	17	20
N-Nitrosodi-n-propylamine	**21.9**		µg/l	5.00	50.0		44	40-140	8	20
N-Nitrosodiphenylamine	**24.9**		µg/l	5.00	50.0		50	40-140	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 1311/8270D										
Batch 1720663 - SW846 3510C										
LCS Dup (1720663-BSD1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
Pentachlorophenol	**18.7**	J	µg/l	20.0	50.0		37	30-130	0.4	20
Phenanthrene	**24.4**		µg/l	5.00	50.0		49	40-140	0.2	20
Phenol	**9.84**	QC2	µg/l	5.00	50.0		20	30-130	11	20
Pyrene	**28.1**		µg/l	5.00	50.0		56	40-140	8	20
Pyridine	**13.0**	QC2	µg/l	5.00	50.0		26	40-140	13	20
1,2,4-Trichlorobenzene	**27.2**		µg/l	5.00	50.0		54	40-140	11	20
1-Methylnaphthalene	**25.9**		µg/l	5.00	50.0		52	40-140	9	20
2,4,5-Trichlorophenol	**33.2**		µg/l	5.00	50.0		66	30-130	7	20
2,4,6-Trichlorophenol	**29.8**		µg/l	5.00	50.0		60	30-130	6	20
Pentachloronitrobenzene	**36.0**		µg/l	5.00	50.0		72	40-140	1	20
1,2,4,5-Tetrachlorobenzene	**30.0**		µg/l	5.00	50.0		60	40-140	3	20
Surrogate: 2-Fluorobiphenyl	*27.4*		µg/l		*50.0*		*55*	*30-130*		
Surrogate: 2-Fluorophenol	*12.2*		µg/l		*50.0*		*24*	*15-110*		
Surrogate: Nitrobenzene-d5	*27.5*		µg/l		*50.0*		*55*	*30-130*		
Surrogate: Phenol-d5	*12.1*		µg/l		*50.0*		*24*	*15-110*		
Surrogate: Terphenyl-dl4	*20.3*		µg/l		*50.0*		*41*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*28.0*		µg/l		*50.0*		*56*	*15-110*		
SW846 8270D TICS										
Batch 1720422 - SW846 3510C										
Blank (1720422-BLK1)					Prepared: 08-Dec-17 Analyzed: 11-Dec-17					
2-Pentanone, 4-hydroxy-4-me...	**4.4**		µg/l							
n-Hexadecanoic Acid	**4.2**		µg/l							
Tentatively Identified Compounds	**0.0**	U	µg/l							
Batch 1720663 - SW846 3510C										
Blank (1720663-BLK1)					Prepared: 13-Dec-17 Analyzed: 14-Dec-17					
1-Hexacosanol	**6.4**	J N	µg/l							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SM2540 G (11) Mod.										
Batch 1720464 - General Preparation										
Duplicate (1720464-DUP1)			**Source: SC42193-07**			Prepared & Analyzed: 08-Dec-17				
% Solids	**84.2**		%			84.9			0.7	5
Duplicate (1720464-DUP2)			**Source: SC42193-08**			Prepared & Analyzed: 08-Dec-17				
% Solids	**81.1**		%			80.9			0.3	5

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC42193

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

☐ Standard TAT - 7 to 10 business days (CH)

☒ Rush TAT - Date Needed: 2 Bus. Day TAT

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

PR # 17954

Report To: Day Environmental, Inc
1563 Lyell Avenue
Rochester, New York

Telephone #: 585 454 0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o Sol Epoxy, Inc
211 Franklin Street
Olean, New York 14760

P.O No.: _____ Quote #: _____

Project No: 4884 s-13
Site Name: 202 Franklin Street
Location: Olean, New York State: —
Sampler(s): C. Hampton

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=_____ 12=_____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=_____ X2=_____ X3=_____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	TCLP	Full List SVOC 8270 + TICs	Check if chlorinated
42193-01	Metal waste Pile-West 1	12/4/17	14:00	G	SO			1		X	X	☐
-02	Metal waste Pile-West 2		14:05					1		X	X	☐
-03	Metal Waste Pile-West 3		14:10					1		X	X	☐
-04	Metal Waste Pile-East 4		14:15					1		X	X	☐
-05	Metal Waste Pile-East 5		14:20					1		X	X	☐
-06	Metal Waste Pile-East 6		14:25					1		X	X	☐
-07	metal waste Pile west comp			C				1		X	X	☐
-08	metal waste Pile East comp							1		X	X	☐
												☐
												☐

List Preservative Code below:

Analysis: 12/4/17 2,3/1,2,3/12

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

3:1 Composite - then TCLP & Test
3:1 Composite - then TCLP & Test

Relinquished by:	Received by:	Date:	Time:
Annette Hatheway		12/6/17	1344
		12/7/17	1216

Temp °C: Observed 1.6°C; Correction Factor 0; Corrected 1.6°C; IR ID # 3

☐ EDD format:
☒ E-mail to: champton@daymail.net

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Batch Summary

1720416

Semivolatile Organic Compounds by GCMS

SC42193-07 (Metal Waste Pile-West Comp)
SC42193-08 (Metal Waste Pile-East Comp)

1720418

General Chemistry Parameters

SC42193-07 (Metal Waste Pile-West Comp)
SC42193-08 (Metal Waste Pile-East Comp)

1720422

Semivolatile Organic Compounds by GCMS

1720422-BLK1
1720422-BS1
1720422-BSD1
1720422-DUP1

1720464

General Chemistry Parameters

1720464-DUP1
1720464-DUP2
SC42193-07 (Metal Waste Pile-West Comp)
SC42193-08 (Metal Waste Pile-East Comp)

1720653

Semivolatile Organic Compounds by GCMS

SC42193-07RE1 (Metal Waste Pile-West Comp)
SC42193-08RE1 (Metal Waste Pile-East Comp)

1720663

Semivolatile Organic Compounds by GCMS

1720663-BLK1
1720663-BS1
1720663-BSD1
SC42193-07RE1 (Metal Waste Pile-West Comp)
SC42193-08RE1 (Metal Waste Pile-East Comp)

S708921

Semivolatile Organic Compounds by GCMS

S708921-CAL1
S708921-CAL2
S708921-CAL3
S708921-CAL4
S708921-CAL5
S708921-CAL6
S708921-CAL7
S708921-CAL8
S708921-CAL9
S708921-CALA
S708921-ICV1
S708921-LCV1
S708921-LCV2
S708921-LCV3
S708921-TUN1

S710774

Semivolatile Organic Compounds by GCMS

S710774-CCV1
S710774-TUN1

S710873

Semivolatile Organic Compounds by GCMS

S710873-CCV1
S710873-TUN1

EUROFINS SPECTRUM LABORATRY REPORT AND CHAIN OF CUSTODY DOCUMENTATION FOR WASTE CHARACTERIZATION

WASTE PROFILE 118496NY

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
16-Oct-17 12:39

Laboratory Report
SC40022

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Charles Hampton

Project: 202 Franklin St. - Olean, NY
Project #: 4884S-13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Dawn E Wojcik

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 45 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC40022

Project: 202 Franklin St. - Olean, NY

Project Number: 4884S-13

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC40022-01	Disposal Pile-1	Soil	29-Sep-17 10:00	02-Oct-17 15:50
SC40022-02	Disposal Pile-1-Comp	Soil	29-Sep-17 00:00	02-Oct-17 15:50

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Analyses for Total Hardness, pH, and Total Residual Chlorine fall under the state of Pennsylvania code Chapter 252.6 accreditation by rule.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

Sample Compositing Narrative:

Sample SC40022-02 Container A was composited on October 05, 2017 per client request from: SC40022-01 Container D 120.38g; SC40022-01 Container E 120.54g; SC40022-01 Container F 120.11g.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8151A

BZ16866-MS

This parameter is outside laboratory rpd specified recovery limits.

Dalapon

BZ16866-MSD

This parameter is outside laboratory rpd specified recovery limits.

Dalapon

SW846 1030

Samples:

SC40022-02 *Disposal Pile-1-Comp*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 8082A

Samples:

SC40022-02 *Disposal Pile-1-Comp*

The Reporting Limit has been raised to account for matrix interference.

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1717293-BLK1
1717293-BS1
1717293-BSD1
Disposal Pile-1
S708708-ICV1
S708971-CCV1

1710009

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane (EDB)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
Styrene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

SW846 8260C

Calibration:

1710009

This affected the following samples:

S708827-ICV1

Laboratory Control Samples:

1717293 BS/BSD

2,2-Dichloropropane percent recoveries (63/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1

Bromoform percent recoveries (70/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1

trans-1,4-Dichloro-2-butene percent recoveries (61/60) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1

1717338 BS/BSD

Bromomethane percent recoveries (158/160) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Disposal Pile-1

Samples:

S708971-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-36.6%)
Bromoform (-25.7%)
Carbon tetrachloride (-25.0%)
Ethyl ether (26.7%)
Tert-amyl methyl ether (33.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (41.7%)
trans-1,4-Dichloro-2-butene (-35.1%)

This affected the following samples:

1717293-BLK1
1717293-BS1
1717293-BSD1
Disposal Pile-1

S709007-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (59.9%)

SW846 8260C

Samples:

S709007-CCV1

This affected the following samples:

1717338-BLK1
1717338-BS1
1717338-BSD1
Disposal Pile-1

SC40022-01RE1 *Disposal Pile-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC40022-01RE2 *Disposal Pile-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8260C TICs

Samples:

SC40022-01RE1 *Disposal Pile-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC40022-01RE2 *Disposal Pile-1*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8270D

Calibration:

1709033

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Benzoic acid
Carbazole

This affected the following samples:

S708282-ICV1

Laboratory Control Samples:

1717180 BS/BSD

Benzoic acid percent recoveries (11/13) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1-Comp

Bis(2-chloroisopropyl)ether percent recoveries (38/39) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1-Comp

Pyridine percent recoveries (41/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Disposal Pile-1-Comp

SW846 8270D

Samples:

S708992-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (23.2%)
3-Nitroaniline (-21.6%)
4-Chloroaniline (-28.9%)
4-Chlorophenyl phenyl ether (27.0%)
Aniline (-29.7%)
Benzo (b) fluoranthene (24.1%)
Diethyl phthalate (27.7%)
Hexachlorocyclopentadiene (26.2%)
N-Nitrosodimethylamine (-25.4%)
Pyridine (-29.0%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Carbazole (-56.2%)

This affected the following samples:

1717180-BLK1
1717180-BS1
1717180-BSD1

S709017-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dichlorobenzene (21.4%)
2,4,5-Trichlorophenol (36.7%)
2-Chloronaphthalene (24.8%)
3,3´-Dichlorobenzidine (-23.0%)
4-Chloroaniline (-24.7%)
4-Chlorophenyl phenyl ether (29.0%)
Aniline (-33.0%)
Benzidine (-70.7%)
Benzo (b) fluoranthene (21.7%)
Bis(2-chloroethyl)ether (23.2%)
Diethyl phthalate (30.7%)
Hexachlorocyclopentadiene (31.3%)
Isophorone (-20.1%)
Pyridine (-20.3%)

This affected the following samples:

Disposal Pile-1-Comp

SC40022-02 *Disposal Pile-1-Comp*

Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

2-Fluorophenol

Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.

2-Fluorobiphenyl

Sample Acceptance Check Form

Client:	Day Environmental, Inc.
Project:	202 Franklin St. - Olean, NY / 4884S-13
Work Order:	SC40022
Sample(s) received on:	10/2/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC40022-01 **Client ID:** Disposal Pile-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	4880	E	23.4	µg/kg	SW846 8260C
Carbon disulfide	40.9		4.67	µg/kg	SW846 8260C

Lab ID: SC40022-01RE1 **Client ID:** Disposal Pile-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	74500	D, E	291	µg/kg	SW846 8260C
Naphthalene	22.1	J, D	29.1	µg/kg	SW846 8260C
Toluene	16.6	J, D	29.1	µg/kg	SW846 8260C

Lab ID: SC40022-01RE2 **Client ID:** Disposal Pile-1

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	106000	D	11600	µg/kg	SW846 8260C

Lab ID: SC40022-02 **Client ID:** Disposal Pile-1-Comp

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Arsenic	8.20		0.70	mg/Kg	SW6010C
Barium	41.2		0.35	mg/Kg	SW6010C
Cadmium	0.94		0.35	mg/Kg	SW6010C
Chromium	10.7		0.35	mg/Kg	SW6010C
Lead	10.3		0.35	mg/Kg	SW6010C
Fluoranthene	44.5	J	71.8	µg/kg	SW846 8270D

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17
SC40022-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1717009	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 13.64 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.34	U	µg/kg dry	2.34	1.18	1	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717293	X
67-64-1	Acetone	**4,880**	E	µg/kg dry	23.4	9.34	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.34	U	µg/kg dry	2.34	2.25	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.34	U	µg/kg dry	2.34	0.62	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.34	U	µg/kg dry	2.34	0.62	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.34	U	µg/kg dry	2.34	1.18	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.34	U	µg/kg dry	2.34	1.56	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.34	U	µg/kg dry	2.34	2.23	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 4.67	U	µg/kg dry	4.67	2.11	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 4.67	U	µg/kg dry	4.67	4.18	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.34	U	µg/kg dry	2.34	0.67	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.34	U	µg/kg dry	2.34	0.43	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 2.34	U	µg/kg dry	2.34	0.52	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	**40.9**		µg/kg dry	4.67	1.50	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.34	U	µg/kg dry	2.34	1.91	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.34	U	µg/kg dry	2.34	0.73	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.67	U	µg/kg dry	4.67	1.30	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.34	U	µg/kg dry	2.34	1.25	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 4.67	U	µg/kg dry	4.67	0.96	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.34	U	µg/kg dry	2.34	0.58	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.34	U	µg/kg dry	2.34	0.55	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 4.67	U	µg/kg dry	4.67	3.38	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.34	U	µg/kg dry	2.34	1.58	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.34	U	µg/kg dry	2.34	1.57	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.34	U	µg/kg dry	2.34	1.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.34	U	µg/kg dry	2.34	0.61	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.34	U	µg/kg dry	2.34	0.51	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.34	U	µg/kg dry	2.34	0.69	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.67	U	µg/kg dry	4.67	0.89	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.34	U	µg/kg dry	2.34	0.61	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.34	U	µg/kg dry	2.34	0.84	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.34	U	µg/kg dry	2.34	1.22	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.34	U	µg/kg dry	2.34	0.87	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2.34	U	µg/kg dry	2.34	1.24	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.34	U	µg/kg dry	2.34	1.22	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.34	U	µg/kg dry	2.34	1.21	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.34	U	µg/kg dry	2.34	1.10	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.34	U	µg/kg dry	2.34	0.75	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.34	U	µg/kg dry	2.34	1.41	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.34	U	µg/kg dry	2.34	1.23	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17
SC40022-01				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 13.64 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 2.34	U	µg/kg dry	2.34	0.34	1	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717293	X
87-68-3	Hexachlorobutadiene	< 2.34	U	µg/kg dry	2.34	1.17	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 4.67	U	µg/kg dry	4.67	2.87	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.34	U	µg/kg dry	2.34	0.46	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.34	U	µg/kg dry	2.34	0.50	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.34	U	µg/kg dry	2.34	0.86	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 4.67	U	µg/kg dry	4.67	1.20	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 4.67	U	µg/kg dry	4.67	0.93	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.34	U	µg/kg dry	2.34	1.39	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.34	U	µg/kg dry	2.34	0.38	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.34	U	µg/kg dry	2.34	0.47	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.34	U	µg/kg dry	2.34	1.99	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.34	U	µg/kg dry	2.34	1.98	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.34	U	µg/kg dry	2.34	0.80	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.34	U	µg/kg dry	2.34	0.76	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 2.34	U	µg/kg dry	2.34	0.82	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.34	U	µg/kg dry	2.34	1.72	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 2.34	U	µg/kg dry	2.34	0.73	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 2.34	U	µg/kg dry	2.34	0.78	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.34	U	µg/kg dry	2.34	1.69	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.34	U	µg/kg dry	2.34	0.64	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.34	U	µg/kg dry	2.34	1.26	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.34	U	µg/kg dry	2.34	1.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.34	U	µg/kg dry	2.34	0.57	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.34	U	µg/kg dry	2.34	0.40	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.34	U	µg/kg dry	2.34	0.79	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 4.67	U	µg/kg dry	4.67	0.42	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 2.34	U	µg/kg dry	2.34	0.65	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.67	U	µg/kg dry	4.67	3.68	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 2.34	U	µg/kg dry	2.34	2.12	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.34	U	µg/kg dry	2.34	0.78	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.34	U	µg/kg dry	2.34	1.26	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.34	U	µg/kg dry	2.34	0.43	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 23.4	U	µg/kg dry	23.4	15.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 46.7	U	µg/kg dry	46.7	40.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 11.7	U	µg/kg dry	11.7	5.33	1	"	"	"	"	"	X
64-17-5	Ethanol	< 467	U	µg/kg dry	467	87.2	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*98*		*70-130 %*				"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*		*70-130 %*				"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*129*		*70-130 %*				"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*		*70-130 %*				"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17
SC40022-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 31.74 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 29.1	U, D	µg/kg dry	29.1	14.7	50	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
67-64-1	Acetone	**74,500**	D, E	µg/kg dry	291	116	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 29.1	U, D	µg/kg dry	29.1	27.9	50	"	"	"	"	"	X
71-43-2	Benzene	< 29.1	U, D	µg/kg dry	29.1	7.70	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 29.1	U, D	µg/kg dry	29.1	7.76	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 29.1	U, D	µg/kg dry	29.1	14.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 29.1	U, D	µg/kg dry	29.1	19.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 29.1	U, D	µg/kg dry	29.1	27.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 58.1	U, D	µg/kg dry	58.1	26.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 58.1	U, D	µg/kg dry	58.1	52.0	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 29.1	U, D	µg/kg dry	29.1	8.31	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 29.1	U, D	µg/kg dry	29.1	5.29	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 29.1	U, D	µg/kg dry	29.1	6.51	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 58.1	U, D	µg/kg dry	58.1	18.6	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 29.1	U, D	µg/kg dry	29.1	23.8	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 29.1	U, D	µg/kg dry	29.1	9.09	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 58.1	U, D	µg/kg dry	58.1	16.1	50	"	"	"	"	"	X
67-66-3	Chloroform	< 29.1	U, D	µg/kg dry	29.1	15.6	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 58.1	U, D	µg/kg dry	58.1	12.0	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 29.1	U, D	µg/kg dry	29.1	7.24	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 29.1	U, D	µg/kg dry	29.1	6.83	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 58.1	U, D	µg/kg dry	58.1	42.0	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 29.1	U, D	µg/kg dry	29.1	19.7	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 29.1	U, D	µg/kg dry	29.1	19.5	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 29.1	U, D	µg/kg dry	29.1	15.1	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	7.55	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	6.31	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	8.60	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 58.1	U, D	µg/kg dry	58.1	11.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 29.1	U, D	µg/kg dry	29.1	7.61	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 29.1	U, D	µg/kg dry	29.1	10.4	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 29.1	U, D	µg/kg dry	29.1	15.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 29.1	U, D	µg/kg dry	29.1	10.8	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 29.1	U, D	µg/kg dry	29.1	15.4	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 29.1	U, D	µg/kg dry	29.1	15.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 29.1	U, D	µg/kg dry	29.1	15.1	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 29.1	U, D	µg/kg dry	29.1	13.7	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 29.1	U, D	µg/kg dry	29.1	9.36	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 29.1	U, D	µg/kg dry	29.1	17.5	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 29.1	U, D	µg/kg dry	29.1	15.3	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 29.1	U, D	µg/kg dry	29.1	4.18	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 29.1	U, D	µg/kg dry	29.1	14.6	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17
SC40022-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
						Initial weight: 31.74 g							
591-78-6	2-Hexanone (MBK)	< 58.1	U, D	µg/kg dry	58.1	35.7	50	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
98-82-8	Isopropylbenzene	< 29.1	U, D	µg/kg dry	29.1	5.72	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 29.1	U, D	µg/kg dry	29.1	6.25	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 29.1	U, D	µg/kg dry	29.1	10.7	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 58.1	U, D	µg/kg dry	58.1	14.9	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 58.1	U, D	µg/kg dry	58.1	11.5	50	"	"	"	"	"	X
91-20-3	Naphthalene	**22.1**	J, D	µg/kg dry	29.1	17.3	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 29.1	U, D	µg/kg dry	29.1	4.71	50	"	"	"	"	"	X
100-42-5	Styrene	< 29.1	U, D	µg/kg dry	29.1	5.84	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 29.1	U, D	µg/kg dry	29.1	24.7	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 29.1	U, D	µg/kg dry	29.1	24.6	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 29.1	U, D	µg/kg dry	29.1	9.94	50	"	"	"	"	"	X
108-88-3	Toluene	**16.6**	J, D	µg/kg dry	29.1	9.41	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	10.2	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	21.4	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 29.1	U, D	µg/kg dry	29.1	9.12	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 29.1	U, D	µg/kg dry	29.1	9.65	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 29.1	U, D	µg/kg dry	29.1	21.1	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 29.1	U, D	µg/kg dry	29.1	7.93	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 29.1	U, D	µg/kg dry	29.1	15.7	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 29.1	U, D	µg/kg dry	29.1	21.8	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 29.1	U, D	µg/kg dry	29.1	7.06	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 29.1	U, D	µg/kg dry	29.1	5.00	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 29.1	U, D	µg/kg dry	29.1	9.82	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 58.1	U, D	µg/kg dry	58.1	5.23	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 29.1	U, D	µg/kg dry	29.1	8.14	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 58.1	U, D	µg/kg dry	58.1	45.8	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 29.1	U, D	µg/kg dry	29.1	26.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 29.1	U, D	µg/kg dry	29.1	9.71	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 29.1	U, D	µg/kg dry	29.1	15.7	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 29.1	U, D	µg/kg dry	29.1	5.40	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 291	U, D	µg/kg dry	291	190	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 581	U, D	µg/kg dry	581	505	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 145	U, D	µg/kg dry	145	66.3	50	"	"	"	"	"	X
64-17-5	Ethanol	< 5810	U, D	µg/kg dry	5810	1080	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*100*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*98*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17
SC40022-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 31.74 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1160	U, D	µg/kg dry	1160	589	2000	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
67-64-1	Acetone	**106,000**	D	µg/kg dry	11600	4650	2000	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1160	U, D	µg/kg dry	1160	1120	2000	"	"	"	"	"	X
71-43-2	Benzene	< 1160	U, D	µg/kg dry	1160	308	2000	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1160	U, D	µg/kg dry	1160	310	2000	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1160	U, D	µg/kg dry	1160	587	2000	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1160	U, D	µg/kg dry	1160	775	2000	"	"	"	"	"	X
75-25-2	Bromoform	< 1160	U, D	µg/kg dry	1160	1110	2000	"	"	"	"	"	X
74-83-9	Bromomethane	< 2320	U, D	µg/kg dry	2320	1050	2000	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 2320	U, D	µg/kg dry	2320	2080	2000	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1160	U, D	µg/kg dry	1160	332	2000	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1160	U, D	µg/kg dry	1160	212	2000	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1160	U, D	µg/kg dry	1160	260	2000	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2320	U, D	µg/kg dry	2320	744	2000	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1160	U, D	µg/kg dry	1160	951	2000	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1160	U, D	µg/kg dry	1160	364	2000	"	"	"	"	"	X
75-00-3	Chloroethane	< 2320	U, D	µg/kg dry	2320	645	2000	"	"	"	"	"	X
67-66-3	Chloroform	< 1160	U, D	µg/kg dry	1160	624	2000	"	"	"	"	"	X
74-87-3	Chloromethane	< 2320	U, D	µg/kg dry	2320	480	2000	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1160	U, D	µg/kg dry	1160	289	2000	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1160	U, D	µg/kg dry	1160	273	2000	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2320	U, D	µg/kg dry	2320	1680	2000	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1160	U, D	µg/kg dry	1160	788	2000	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1160	U, D	µg/kg dry	1160	780	2000	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1160	U, D	µg/kg dry	1160	604	2000	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1160	U, D	µg/kg dry	1160	302	2000	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1160	U, D	µg/kg dry	1160	252	2000	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1160	U, D	µg/kg dry	1160	344	2000	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2320	U, D	µg/kg dry	2320	441	2000	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1160	U, D	µg/kg dry	1160	305	2000	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1160	U, D	µg/kg dry	1160	416	2000	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1160	U, D	µg/kg dry	1160	608	2000	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1160	U, D	µg/kg dry	1160	431	2000	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1160	U, D	µg/kg dry	1160	616	2000	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1160	U, D	µg/kg dry	1160	609	2000	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1160	U, D	µg/kg dry	1160	602	2000	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1160	U, D	µg/kg dry	1160	549	2000	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1160	U, D	µg/kg dry	1160	374	2000	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1160	U, D	µg/kg dry	1160	701	2000	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1160	U, D	µg/kg dry	1160	610	2000	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1160	U, D	µg/kg dry	1160	167	2000	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1160	U, D	µg/kg dry	1160	583	2000	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260			GS1										
						Initial weight: 31.74 g							
591-78-6	2-Hexanone (MBK)	< 2320	U, D	µg/kg dry	2320	1430	2000	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
98-82-8	Isopropylbenzene	< 1160	U, D	µg/kg dry	1160	229	2000	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1160	U, D	µg/kg dry	1160	250	2000	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1160	U, D	µg/kg dry	1160	428	2000	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 2320	U, D	µg/kg dry	2320	597	2000	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2320	U, D	µg/kg dry	2320	461	2000	"	"	"	"	"	X
91-20-3	Naphthalene	< 1160	U, D	µg/kg dry	1160	692	2000	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1160	U, D	µg/kg dry	1160	188	2000	"	"	"	"	"	X
100-42-5	Styrene	< 1160	U, D	µg/kg dry	1160	234	2000	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1160	U, D	µg/kg dry	1160	988	2000	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1160	U, D	µg/kg dry	1160	983	2000	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1160	U, D	µg/kg dry	1160	398	2000	"	"	"	"	"	X
108-88-3	Toluene	< 1160	U, D	µg/kg dry	1160	377	2000	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1160	U, D	µg/kg dry	1160	408	2000	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1160	U, D	µg/kg dry	1160	857	2000	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1160	U, D	µg/kg dry	1160	365	2000	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1160	U, D	µg/kg dry	1160	386	2000	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1160	U, D	µg/kg dry	1160	843	2000	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1160	U, D	µg/kg dry	1160	317	2000	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1160	U, D	µg/kg dry	1160	626	2000	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1160	U, D	µg/kg dry	1160	872	2000	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1160	U, D	µg/kg dry	1160	282	2000	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1160	U, D	µg/kg dry	1160	200	2000	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1160	U, D	µg/kg dry	1160	393	2000	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2320	U, D	µg/kg dry	2320	209	2000	"	"	"	"	"	X
95-47-6	o-Xylene	< 1160	U, D	µg/kg dry	1160	325	2000	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2320	U, D	µg/kg dry	2320	1830	2000	"	"	"	"	"	
60-29-7	Ethyl ether	< 1160	U, D	µg/kg dry	1160	1050	2000	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1160	U, D	µg/kg dry	1160	388	2000	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1160	U, D	µg/kg dry	1160	626	2000	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1160	U, D	µg/kg dry	1160	216	2000	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 11600	U, D	µg/kg dry	11600	7610	2000	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 23200	U, D	µg/kg dry	23200	20200	2000	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5810	U, D	µg/kg dry	5810	2650	2000	"	"	"	"	"	X
64-17-5	Ethanol	< 232000	U, D	µg/kg dry	232000	43400	2000	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*99*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*96*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)										Initial weight: 13.64 g			

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1 SC40022-01	4884S-13	Soil	29-Sep-17 10:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)							Initial weight: 13.64 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	11-Oct-17	11-Oct-17	MP	1717293	
Re-analysis of Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)			GS1				Initial weight: 31.74 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			50	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717338	
Re-analysis of Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)			GS1				Initial weight: 31.74 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			2000	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717338	
General Chemistry Parameters													
	% Solids	**93.1**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716984	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40022-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 71.8	U	µg/kg dry	71.8	35.7	1	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
208-96-8	Acenaphthylene	< 71.8	U	µg/kg dry	71.8	35.4	1	"	"	"	"	"	X
62-53-3	Aniline	< 355	U	µg/kg dry	355	25.5	1	"	"	"	"	"	X
120-12-7	Anthracene	< 71.8	U	µg/kg dry	71.8	34.3	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 355	U	µg/kg dry	355	34.9	1	"	"	"	"	"	
92-87-5	Benzidine	< 355	U	µg/kg dry	355	71.5	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 71.8	U	µg/kg dry	71.8	37.9	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 71.8	U	µg/kg dry	71.8	26.7	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 71.8	U	µg/kg dry	71.8	34.8	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 71.8	U	µg/kg dry	71.8	28.9	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 71.8	U	µg/kg dry	71.8	28.1	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 355	U	µg/kg dry	355	74.6	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 355	U	µg/kg dry	355	29.1	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 355	U	µg/kg dry	355	31.5	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 180	U	µg/kg dry	180	25.8	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 180	U	µg/kg dry	180	27.7	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 180	U	µg/kg dry	180	44.4	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 355	U	µg/kg dry	355	33.3	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 355	U	µg/kg dry	355	41.5	1	"	"	"	"	"	X
86-74-8	Carbazole	< 180	U	µg/kg dry	180	100	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 355	U	µg/kg dry	355	33.9	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 180	U	µg/kg dry	180	38.9	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 355	U	µg/kg dry	355	32.8	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 180	U	µg/kg dry	180	32.0	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 355	U	µg/kg dry	355	42.2	1	"	"	"	"	"	X
218-01-9	Chrysene	< 71.8	U	µg/kg dry	71.8	35.9	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 71.8	U	µg/kg dry	71.8	27.6	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 180	U	µg/kg dry	180	27.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 355	U	µg/kg dry	355	31.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 355	U	µg/kg dry	355	31.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 355	U	µg/kg dry	355	32.9	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 355	U	µg/kg dry	355	54.0	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 180	U	µg/kg dry	180	33.6	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 355	U	µg/kg dry	355	43.9	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 355	U	µg/kg dry	355	38.9	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 355	U	µg/kg dry	355	25.4	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 355	U	µg/kg dry	355	37.7	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 355	U	µg/kg dry	355	45.6	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 355	U	µg/kg dry	355	36.2	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 180	U	µg/kg dry	180	69.5	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 180	U	µg/kg dry	180	40.5	1	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	< 355	U	µg/kg dry	355	40.1	1	SW846 8270D	10-Oct-17	12-Oct-17	MSL	1717180	X
206-44-0	Fluoranthene	**44.5**	J	µg/kg dry	71.8	37.9	1	"	"	"	"	"	X
86-73-7	Fluorene	< 71.8	U	µg/kg dry	71.8	36.5	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 180	U	µg/kg dry	180	35.4	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 180	U	µg/kg dry	180	43.0	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 180	U	µg/kg dry	180	24.4	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 180	U	µg/kg dry	180	38.8	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 71.8	U	µg/kg dry	71.8	25.8	1	"	"	"	"	"	X
78-59-1	Isophorone	< 180	U	µg/kg dry	180	33.7	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 71.8	U	µg/kg dry	71.8	43.4	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 355	U	µg/kg dry	355	30.2	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 355	U	µg/kg dry	355	34.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.8	U	µg/kg dry	71.8	33.5	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 355	U	µg/kg dry	355	30.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 355	U	µg/kg dry	355	48.6	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 180	U	µg/kg dry	180	55.3	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 180	U	µg/kg dry	180	32.7	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 180	U	µg/kg dry	180	29.8	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1420	U	µg/kg dry	1420	57.4	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 180	U	µg/kg dry	180	33.4	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 180	U	µg/kg dry	180	35.0	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 355	U	µg/kg dry	355	38.5	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 355	U	µg/kg dry	355	38.0	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 71.8	U	µg/kg dry	71.8	33.4	1	"	"	"	"	"	X
108-95-2	Phenol	< 355	U	µg/kg dry	355	23.4	1	"	"	"	"	"	X
129-00-0	Pyrene	< 71.8	U	µg/kg dry	71.8	40.1	1	"	"	"	"	"	X
110-86-1	Pyridine	< 355	U	µg/kg dry	355	53.0	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 355	U	µg/kg dry	355	35.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 71.8	U	µg/kg dry	71.8	35.3	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 355	U	µg/kg dry	355	32.0	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 180	U	µg/kg dry	180	32.1	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 355	U	µg/kg dry	355	56.1	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 355	U	µg/kg dry	355	34.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*29*	SBN		*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*28*	SAC		*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*32*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*30*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*39*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*36*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40022-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 211	U, D	µg/kg dry	211	94.7	10	SW846 8082A	10-Oct-17	12-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 211	U, D	µg/kg dry	211	112	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 211	U, D	µg/kg dry	211	106	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 211	U, D	µg/kg dry	211	209	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 211	U, D	µg/kg dry	211	193	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 211	U, D	µg/kg dry	211	138	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 211	U, D	µg/kg dry	211	113	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 211	U, D	µg/kg dry	211	184	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 211	U, D	µg/kg dry	211	95.3	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	Sample Prep	**Completed**		N/A			1	SAI SOP	05-Oct-17		BD	1717010	
	% Solids	**92.8**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1717019	
Toxicity Characteristics													
	Ignitability by Definition	**Negative**	IgHT	N/A			1	SW846 1030	05-Oct-17 15:30	06-Oct-17 12:30	BD	1717013	X
	pH	**7.54**	pH	pH Units			1	SW846 9045D	05-Oct-17 14:30	05-Oct-17 17:00	BD	1716875	X
Reactivity Cyanide/Sulfide													
	Reactivity	**See Narrative**		mg/kg dry			1	SW846 Ch. 7.3	06-Oct-17	06-Oct-17	TN	1717083	
57-12-5	Reactive Cyanide	< 24.8	U	mg/kg dry	24.8	24.8	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.7	U	mg/kg dry	49.7	49.7	1	"	"	"	"	"	
Subcontracted Analyses													
Subcontracted Analyses													
Prepared by method 404449-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-38-2	Arsenic	**8.20**		mg/Kg	0.70	0.70	1	SW6010C	05-Oct-17	09-Oct-17 23:40	21369	404449A	
7440-39-3	Barium	**41.2**		mg/Kg	0.35	0.35	1	"	"	"	"	"	
7440-43-9	Cadmium	**0.94**		mg/Kg	0.35	0.35	1	"	"	"	"	"	
7440-47-3	Chromium	**10.7**		mg/Kg	0.35	0.35	1	"	"	"	"	"	
7439-92-1	Lead	**10.3**		mg/Kg	0.35	0.35	1	"	"	"	"	"	
7782-49-2	Selenium	< 1.4		mg/Kg	1.4	1.4	1	"	"	"	"	"	
7440-22-4	Silver	< 0.35		mg/Kg	0.35	0.35	1	"	"	"	"	"	
Prepared by method 404534-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7439-97-6	Mercury	< 0.03		mg/Kg	0.03	0.03	1	SW7471B	09-Oct-17	09-Oct-17 09:12	21369	404534A	
Subcontracted Analyses													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Disposal Pile-1-Comp	4884S-13	Soil	29-Sep-17 00:00	02-Oct-17
SC40022-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404584-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.0		ug/Kg	2.0	2.0	2	SW8081B	06-Oct-17	09-Oct-17 19:12	21369	404584A	
72-55-9	4,4' -DDE	< 2.0		ug/Kg	2.0	2.0	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.0		ug/Kg	2.0	2.0	2	"	"	"	"	"	
319-84-6	a-BHC	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
319-85-7	b-BHC	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
57-74-9	Chlordane	< 34		ug/Kg	34	34	2	"	"	"	"	"	
319-86-8	d-BHC	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
72-20-8	Endrin	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
58-89-9	g-BHC	< 2.0		ug/Kg	2.0	2.0	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
76-44-8	Heptachlor	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 6.8		ug/Kg	6.8	6.8	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 34		ug/Kg	34	34	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 140		ug/Kg	140	140	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*104*			*30-150 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*70*			*30-150 %*			"	"	"	"	"	
Subcontracted Analyses Prepared by method 404600-									Methylation date: 06-Oct-17				
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
93-76-5	2,4,5-T	< 87		ug/Kg	87	87	10	SW8151A	"	09-Oct-17 20:20	21369	404600A	
93-72-1	2,4,5-TP (Silvex)	< 87		ug/Kg	87	87	10	"	"	"	"	"	
94-75-7	2,4-D	< 170		ug/Kg	170	170	10	"	"	"	"	"	
94-82-6	2,4-DB	< 1700		ug/Kg	1700	1700	10	"	"	"	"	"	
75-99-0	Dalapon	< 87		ug/Kg	87	87	10	"	"	"	"	"	
1918-00-9	Dicamba	< 87		ug/Kg	87	87	10	"	"	"	"	"	
120-36-5	Dichloroprop	< 170		ug/Kg	170	170	10	"	"	"	"	"	
88-85-7	Dinoseb	< 170		ug/Kg	170	170	10	"	"	"	"	"	
Surrogate recoveries:													
19719-28-9	*% DCAA*	*53*			*30-150 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**95**		%			1	SW846-%Solid	29-Sep-17	05-Oct-17 22:13	21369	'[none]'	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)					Prepared & Analyzed: 11-Oct-17					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*48.1*		µg/kg		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*47.5*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*63.9*		µg/kg		*50.0*		*128*	*70-130*		
Surrogate: Dibromofluoromethane	*48.8*		µg/kg		*50.0*		*98*	*70-130*		
LCS (1717293-BS1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.2**		µg/kg		20.0		81	70-130		
Acetone	**25.9**		µg/kg		20.0		130	70-130		
Acrylonitrile	**21.7**		µg/kg		20.0		109	70-130		
Benzene	**19.6**		µg/kg		20.0		98	70-130		
Bromobenzene	**18.3**		µg/kg		20.0		92	70-130		
Bromochloromethane	**18.8**		µg/kg		20.0		94	70-130		
Bromodichloromethane	**19.3**		µg/kg		20.0		97	70-130		
Bromoform	**14.0**		µg/kg		20.0		70	70-130		
Bromomethane	**22.8**		µg/kg		20.0		114	70-130		
2-Butanone (MEK)	**18.5**		µg/kg		20.0		93	70-130		
n-Butylbenzene	**21.4**		µg/kg		20.0		107	70-130		
sec-Butylbenzene	**18.0**		µg/kg		20.0		90	70-130		
tert-Butylbenzene	**17.5**		µg/kg		20.0		87	70-130		
Carbon disulfide	**17.9**		µg/kg		20.0		90	70-130		
Carbon tetrachloride	**15.0**		µg/kg		20.0		75	70-130		
Chlorobenzene	**18.7**		µg/kg		20.0		94	70-130		
Chloroethane	**24.6**		µg/kg		20.0		123	70-130		
Chloroform	**19.8**		µg/kg		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS (1717293-BS1)					Prepared & Analyzed: 11-Oct-17					
Chloromethane	**23.3**		µg/kg		20.0		117	70-130		
2-Chlorotoluene	**19.2**		µg/kg		20.0		96	70-130		
4-Chlorotoluene	**20.6**		µg/kg		20.0		103	70-130		
1,2-Dibromo-3-chloropropane	**16.7**		µg/kg		20.0		83	70-130		
Dibromochloromethane	**16.8**		µg/kg		20.0		84	70-130		
1,2-Dibromoethane (EDB)	**18.7**		µg/kg		20.0		93	70-130		
Dibromomethane	**20.3**		µg/kg		20.0		101	70-130		
1,2-Dichlorobenzene	**20.4**		µg/kg		20.0		102	70-130		
1,3-Dichlorobenzene	**18.6**		µg/kg		20.0		93	70-130		
1,4-Dichlorobenzene	**20.1**		µg/kg		20.0		101	70-130		
Dichlorodifluoromethane (Freon12)	**17.5**		µg/kg		20.0		88	70-130		
1,1-Dichloroethane	**20.2**		µg/kg		20.0		101	70-130		
1,2-Dichloroethane	**21.9**		µg/kg		20.0		109	70-130		
1,1-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130		
cis-1,2-Dichloroethene	**19.3**		µg/kg		20.0		96	70-130		
trans-1,2-Dichloroethene	**18.5**		µg/kg		20.0		92	70-130		
1,2-Dichloropropane	**20.4**		µg/kg		20.0		102	70-130		
1,3-Dichloropropane	**20.2**		µg/kg		20.0		101	70-130		
2,2-Dichloropropane	**12.6**	QC2	µg/kg		20.0		63	70-130		
1,1-Dichloropropene	**18.0**		µg/kg		20.0		90	70-130		
cis-1,3-Dichloropropene	**16.7**		µg/kg		20.0		83	70-130		
trans-1,3-Dichloropropene	**15.6**		µg/kg		20.0		78	70-130		
Ethylbenzene	**19.2**		µg/kg		20.0		96	70-130		
Hexachlorobutadiene	**17.7**		µg/kg		20.0		89	70-130		
2-Hexanone (MBK)	**17.3**		µg/kg		20.0		87	70-130		
Isopropylbenzene	**18.1**		µg/kg		20.0		91	70-130		
4-Isopropyltoluene	**20.2**		µg/kg		20.0		101	70-130		
Methyl tert-butyl ether	**15.9**		µg/kg		20.0		80	70-130		
4-Methyl-2-pentanone (MIBK)	**17.4**		µg/kg		20.0		87	70-130		
Methylene chloride	**19.4**		µg/kg		20.0		97	70-130		
Naphthalene	**19.7**		µg/kg		20.0		99	70-130		
n-Propylbenzene	**19.2**		µg/kg		20.0		96	70-130		
Styrene	**18.9**		µg/kg		20.0		94	70-130		
1,1,1,2-Tetrachloroethane	**17.1**		µg/kg		20.0		86	70-130		
1,1,2,2-Tetrachloroethane	**19.2**		µg/kg		20.0		96	70-130		
Tetrachloroethene	**16.3**		µg/kg		20.0		81	70-130		
Toluene	**18.9**		µg/kg		20.0		94	70-130		
1,2,3-Trichlorobenzene	**21.7**		µg/kg		20.0		109	70-130		
1,2,4-Trichlorobenzene	**21.2**		µg/kg		20.0		106	70-130		
1,3,5-Trichlorobenzene	**21.8**		µg/kg		20.0		109	70-130		
1,1,1-Trichloroethane	**16.5**		µg/kg		20.0		82	70-130		
1,1,2-Trichloroethane	**19.7**		µg/kg		20.0		99	70-130		
Trichloroethene	**18.6**		µg/kg		20.0		93	70-130		
Trichlorofluoromethane (Freon 11)	**20.8**		µg/kg		20.0		104	70-130		
1,2,3-Trichloropropane	**19.8**		µg/kg		20.0		99	70-130		
1,2,4-Trimethylbenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.0**		µg/kg		20.0		95	70-130		
Vinyl chloride	**24.7**		µg/kg		20.0		123	70-130		
m,p-Xylene	**18.0**		µg/kg		20.0		90	70-130		
o-Xylene	**18.9**		µg/kg		20.0		95	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS (1717293-BS1)						Prepared & Analyzed: 11-Oct-17				
Tetrahydrofuran	**17.3**		µg/kg		20.0		87	70-130		
Ethyl ether	**24.0**		µg/kg		20.0		120	70-130		
Tert-amyl methyl ether	**24.8**		µg/kg		20.0		124	70-130		
Ethyl tert-butyl ether	**17.3**		µg/kg		20.0		87	70-130		
Di-isopropyl ether	**21.9**		µg/kg		20.0		109	70-130		
Tert-Butanol / butyl alcohol	**164**		µg/kg		200		82	70-130		
1,4-Dioxane	**167**		µg/kg		200		83	70-130		
trans-1,4-Dichloro-2-butene	**12.2**	QC2	µg/kg		20.0		61	70-130		
Ethanol	**428**		µg/kg		400		107	70-130		
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.6*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.7*		µg/kg		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
LCS Dup (1717293-BSD1)						Prepared & Analyzed: 11-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.1**		µg/kg		20.0		80	70-130	0.9	30
Acetone	**24.8**		µg/kg		20.0		124	70-130	4	30
Acrylonitrile	**21.6**		µg/kg		20.0		108	70-130	0.6	30
Benzene	**19.6**		µg/kg		20.0		98	70-130	0.4	30
Bromobenzene	**18.1**		µg/kg		20.0		90	70-130	1	30
Bromochloromethane	**18.6**		µg/kg		20.0		93	70-130	0.9	30
Bromodichloromethane	**19.6**		µg/kg		20.0		98	70-130	1	30
Bromoform	**13.8**	QM9	µg/kg		20.0		69	70-130	2	30
Bromomethane	**24.3**		µg/kg		20.0		122	70-130	7	30
2-Butanone (MEK)	**19.2**		µg/kg		20.0		96	70-130	4	30
n-Butylbenzene	**21.8**		µg/kg		20.0		109	70-130	2	30
sec-Butylbenzene	**17.8**		µg/kg		20.0		89	70-130	1	30
tert-Butylbenzene	**17.4**		µg/kg		20.0		87	70-130	0.5	30
Carbon disulfide	**18.0**		µg/kg		20.0		90	70-130	0.5	30
Carbon tetrachloride	**15.2**		µg/kg		20.0		76	70-130	2	30
Chlorobenzene	**18.7**		µg/kg		20.0		93	70-130	0.1	30
Chloroethane	**24.4**		µg/kg		20.0		122	70-130	0.6	30
Chloroform	**20.0**		µg/kg		20.0		100	70-130	1	30
Chloromethane	**22.9**		µg/kg		20.0		114	70-130	2	30
2-Chlorotoluene	**19.4**		µg/kg		20.0		97	70-130	0.8	30
4-Chlorotoluene	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2-Dibromo-3-chloropropane	**15.5**		µg/kg		20.0		78	70-130	7	30
Dibromochloromethane	**17.0**		µg/kg		20.0		85	70-130	1	30
1,2-Dibromoethane (EDB)	**18.8**		µg/kg		20.0		94	70-130	0.9	30
Dibromomethane	**20.7**		µg/kg		20.0		104	70-130	2	30
1,2-Dichlorobenzene	**20.5**		µg/kg		20.0		103	70-130	0.5	30
1,3-Dichlorobenzene	**18.5**		µg/kg		20.0		92	70-130	0.8	30
1,4-Dichlorobenzene	**20.6**		µg/kg		20.0		103	70-130	2	30
Dichlorodifluoromethane (Freon12)	**16.7**		µg/kg		20.0		84	70-130	5	30
1,1-Dichloroethane	**20.4**		µg/kg		20.0		102	70-130	1	30
1,2-Dichloroethane	**21.9**		µg/kg		20.0		110	70-130	0.1	30
1,1-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130	0.5	30
cis-1,2-Dichloroethene	**19.5**		µg/kg		20.0		98	70-130	1	30
trans-1,2-Dichloroethene	**18.5**		µg/kg		20.0		92	70-130	0.05	30
1,2-Dichloropropane	**20.5**		µg/kg		20.0		102	70-130	0.4	30
1,3-Dichloropropane	**20.0**		µg/kg		20.0		100	70-130	0.8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS Dup (1717293-BSD1)					Prepared & Analyzed: 11-Oct-17					
2,2-Dichloropropane	**12.8**	QC2	µg/kg		20.0		64	70-130	1	30
1,1-Dichloropropene	**18.5**		µg/kg		20.0		92	70-130	2	30
cis-1,3-Dichloropropene	**17.1**		µg/kg		20.0		86	70-130	3	30
trans-1,3-Dichloropropene	**15.8**		µg/kg		20.0		79	70-130	0.8	30
Ethylbenzene	**19.1**		µg/kg		20.0		95	70-130	0.5	30
Hexachlorobutadiene	**18.0**		µg/kg		20.0		90	70-130	1	30
2-Hexanone (MBK)	**14.4**		µg/kg		20.0		72	70-130	18	30
Isopropylbenzene	**18.0**		µg/kg		20.0		90	70-130	0.8	30
4-Isopropyltoluene	**20.8**		µg/kg		20.0		104	70-130	3	30
Methyl tert-butyl ether	**15.8**		µg/kg		20.0		79	70-130	0.9	30
4-Methyl-2-pentanone (MIBK)	**16.4**		µg/kg		20.0		82	70-130	5	30
Methylene chloride	**19.4**		µg/kg		20.0		97	70-130	0.3	30
Naphthalene	**19.6**		µg/kg		20.0		98	70-130	0.6	30
n-Propylbenzene	**19.3**		µg/kg		20.0		96	70-130	0.2	30
Styrene	**19.2**		µg/kg		20.0		96	70-130	1	30
1,1,1,2-Tetrachloroethane	**17.2**		µg/kg		20.0		86	70-130	0.3	30
1,1,2,2-Tetrachloroethane	**18.9**		µg/kg		20.0		95	70-130	2	30
Tetrachloroethene	**16.2**		µg/kg		20.0		81	70-130	0.8	30
Toluene	**18.9**		µg/kg		20.0		95	70-130	0.2	30
1,2,3-Trichlorobenzene	**21.5**		µg/kg		20.0		108	70-130	1	30
1,2,4-Trichlorobenzene	**21.3**		µg/kg		20.0		106	70-130	0.2	30
1,3,5-Trichlorobenzene	**22.2**		µg/kg		20.0		111	70-130	2	30
1,1,1-Trichloroethane	**16.6**		µg/kg		20.0		83	70-130	1	30
1,1,2-Trichloroethane	**19.7**		µg/kg		20.0		99	70-130	0	30
Trichloroethene	**18.5**		µg/kg		20.0		92	70-130	0.9	30
Trichlorofluoromethane (Freon 11)	**21.1**		µg/kg		20.0		105	70-130	1	30
1,2,3-Trichloropropane	**19.6**		µg/kg		20.0		98	70-130	1	30
1,2,4-Trimethylbenzene	**20.0**		µg/kg		20.0		100	70-130	2	30
1,3,5-Trimethylbenzene	**19.1**		µg/kg		20.0		95	70-130	0.7	30
Vinyl chloride	**25.4**		µg/kg		20.0		127	70-130	3	30
m,p-Xylene	**18.0**		µg/kg		20.0		90	70-130	0.1	30
o-Xylene	**18.9**		µg/kg		20.0		95	70-130	0.2	30
Tetrahydrofuran	**16.2**		µg/kg		20.0		81	70-130	7	30
Ethyl ether	**24.1**		µg/kg		20.0		121	70-130	0.7	30
Tert-amyl methyl ether	**25.5**		µg/kg		20.0		127	70-130	3	30
Ethyl tert-butyl ether	**17.3**		µg/kg		20.0		86	70-130	0.2	30
Di-isopropyl ether	**21.7**		µg/kg		20.0		109	70-130	0.6	30
Tert-Butanol / butyl alcohol	**160**		µg/kg		200		80	70-130	2	30
1,4-Dioxane	**151**		µg/kg		200		75	70-130	10	30
trans-1,4-Dichloro-2-butene	**12.1**	QC2	µg/kg		20.0		60	70-130	1	30
Ethanol	**421**		µg/kg		400		105	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.8*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.4*		µg/kg		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/kg		*50.0*		*100*	*70-130*		
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)					Prepared & Analyzed: 12-Oct-17					
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)					Prepared & Analyzed: 12-Oct-17					
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
LCS (1717338-BS1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.6**	D	µg/kg		20.0		83	70-130		
Acetone	**19.4**	D	µg/kg		20.0		97	70-130		
Acrylonitrile	**20.8**	D	µg/kg		20.0		104	70-130		
Benzene	**20.7**	D	µg/kg		20.0		104	70-130		
Bromobenzene	**22.0**	D	µg/kg		20.0		110	70-130		
Bromochloromethane	**21.1**	D	µg/kg		20.0		106	70-130		
Bromodichloromethane	**20.2**	D	µg/kg		20.0		101	70-130		
Bromoform	**22.0**	D	µg/kg		20.0		110	70-130		
Bromomethane	**31.6**	D	µg/kg		20.0		158	70-130		
2-Butanone (MEK)	**19.9**	D	µg/kg		20.0		100	70-130		
n-Butylbenzene	**18.1**	D	µg/kg		20.0		90	70-130		
sec-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130		
tert-Butylbenzene	**19.9**	D	µg/kg		20.0		99	70-130		
Carbon disulfide	**18.9**	D	µg/kg		20.0		95	70-130		
Carbon tetrachloride	**17.6**	D	µg/kg		20.0		88	70-130		
Chlorobenzene	**21.3**	D	µg/kg		20.0		106	70-130		
Chloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
Chloroform	**21.0**	D	µg/kg		20.0		105	70-130		
Chloromethane	**15.4**	D	µg/kg		20.0		77	70-130		
2-Chlorotoluene	**20.9**	D	µg/kg		20.0		104	70-130		
4-Chlorotoluene	**20.8**	D	µg/kg		20.0		104	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS (1717338-BS1)						Prepared & Analyzed: 12-Oct-17				
1,2-Dibromo-3-chloropropane	**19.5**	D	µg/kg		20.0		97	70-130		
Dibromochloromethane	**20.9**	D	µg/kg		20.0		104	70-130		
1,2-Dibromoethane (EDB)	**20.8**	D	µg/kg		20.0		104	70-130		
Dibromomethane	**21.9**	D	µg/kg		20.0		110	70-130		
1,2-Dichlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130		
1,3-Dichlorobenzene	**21.0**	D	µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
Dichlorodifluoromethane (Freon12)	**16.8**	D	µg/kg		20.0		84	70-130		
1,1-Dichloroethane	**20.3**	D	µg/kg		20.0		101	70-130		
1,2-Dichloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	**17.5**	D	µg/kg		20.0		88	70-130		
cis-1,2-Dichloroethene	**21.6**	D	µg/kg		20.0		108	70-130		
trans-1,2-Dichloroethene	**20.2**	D	µg/kg		20.0		101	70-130		
1,2-Dichloropropane	**20.5**	D	µg/kg		20.0		103	70-130		
1,3-Dichloropropane	**21.0**	D	µg/kg		20.0		105	70-130		
2,2-Dichloropropane	**21.8**	D	µg/kg		20.0		109	70-130		
1,1-Dichloropropene	**18.6**	D	µg/kg		20.0		93	70-130		
cis-1,3-Dichloropropene	**19.8**	D	µg/kg		20.0		99	70-130		
trans-1,3-Dichloropropene	**19.9**	D	µg/kg		20.0		100	70-130		
Ethylbenzene	**21.0**	D	µg/kg		20.0		105	70-130		
Hexachlorobutadiene	**17.8**	D	µg/kg		20.0		89	70-130		
2-Hexanone (MBK)	**18.2**	D	µg/kg		20.0		91	70-130		
Isopropylbenzene	**19.9**	D	µg/kg		20.0		100	70-130		
4-Isopropyltoluene	**19.4**	D	µg/kg		20.0		97	70-130		
Methyl tert-butyl ether	**21.6**	D	µg/kg		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	**18.5**	D	µg/kg		20.0		92	70-130		
Methylene chloride	**20.0**	D	µg/kg		20.0		100	70-130		
Naphthalene	**20.3**	D	µg/kg		20.0		101	70-130		
n-Propylbenzene	**19.6**	D	µg/kg		20.0		98	70-130		
Styrene	**20.4**	D	µg/kg		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	**21.2**	D	µg/kg		20.0		106	70-130		
1,1,2,2-Tetrachloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
Tetrachloroethene	**18.5**	D	µg/kg		20.0		92	70-130		
Toluene	**20.2**	D	µg/kg		20.0		101	70-130		
1,2,3-Trichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
1,2,4-Trichlorobenzene	**19.4**	D	µg/kg		20.0		97	70-130		
1,3,5-Trichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
1,1,1-Trichloroethane	**19.5**	D	µg/kg		20.0		97	70-130		
1,1,2-Trichloroethane	**21.8**	D	µg/kg		20.0		109	70-130		
Trichloroethene	**20.0**	D	µg/kg		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	**17.9**	D	µg/kg		20.0		89	70-130		
1,2,3-Trichloropropane	**21.8**	D	µg/kg		20.0		109	70-130		
1,2,4-Trimethylbenzene	**20.9**	D	µg/kg		20.0		104	70-130		
1,3,5-Trimethylbenzene	**20.4**	D	µg/kg		20.0		102	70-130		
Vinyl chloride	**18.9**	D	µg/kg		20.0		94	70-130		
m,p-Xylene	**21.5**	D	µg/kg		20.0		107	70-130		
o-Xylene	**22.2**	D	µg/kg		20.0		111	70-130		
Tetrahydrofuran	**19.6**	D	µg/kg		20.0		98	70-130		
Ethyl ether	**21.8**	D	µg/kg		20.0		109	70-130		
Tert-amyl methyl ether	**20.6**	D	µg/kg		20.0		103	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS (1717338-BS1)					Prepared & Analyzed: 12-Oct-17					
Ethyl tert-butyl ether	**21.5**	D	µg/kg		20.0		108	70-130		
Di-isopropyl ether	**20.2**	D	µg/kg		20.0		101	70-130		
Tert-Butanol / butyl alcohol	**201**	D	µg/kg		200		100	70-130		
1,4-Dioxane	**186**	D	µg/kg		200		93	70-130		
trans-1,4-Dichloro-2-butene	**18.4**	D	µg/kg		20.0		92	70-130		
Ethanol	**380**	D	µg/kg		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.3*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg		*50.0*		*102*	*70-130*		
LCS Dup (1717338-BSD1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.3**	D	µg/kg		20.0		86	70-130	4	30
Acetone	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Acrylonitrile	**20.9**	D	µg/kg		20.0		105	70-130	0.7	30
Benzene	**21.8**	D	µg/kg		20.0		109	70-130	5	30
Bromobenzene	**22.9**	D	µg/kg		20.0		114	70-130	4	30
Bromochloromethane	**22.3**	D	µg/kg		20.0		112	70-130	6	30
Bromodichloromethane	**21.5**	D	µg/kg		20.0		108	70-130	6	30
Bromoform	**23.2**	D	µg/kg		20.0		116	70-130	5	30
Bromomethane	**31.9**	D	µg/kg		20.0		160	70-130	1	30
2-Butanone (MEK)	**21.2**	D	µg/kg		20.0		106	70-130	6	30
n-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130	5	30
sec-Butylbenzene	**19.8**	D	µg/kg		20.0		99	70-130	4	30
tert-Butylbenzene	**20.6**	D	µg/kg		20.0		103	70-130	4	30
Carbon disulfide	**19.5**	D	µg/kg		20.0		98	70-130	3	30
Carbon tetrachloride	**17.9**	D	µg/kg		20.0		90	70-130	2	30
Chlorobenzene	**22.3**	D	µg/kg		20.0		111	70-130	4	30
Chloroethane	**21.6**	D	µg/kg		20.0		108	70-130	5	30
Chloroform	**22.1**	D	µg/kg		20.0		110	70-130	5	30
Chloromethane	**16.4**	D	µg/kg		20.0		82	70-130	6	30
2-Chlorotoluene	**22.1**	D	µg/kg		20.0		111	70-130	6	30
4-Chlorotoluene	**22.2**	D	µg/kg		20.0		111	70-130	6	30
1,2-Dibromo-3-chloropropane	**21.6**	D	µg/kg		20.0		108	70-130	10	30
Dibromochloromethane	**21.9**	D	µg/kg		20.0		109	70-130	5	30
1,2-Dibromoethane (EDB)	**21.8**	D	µg/kg		20.0		109	70-130	5	30
Dibromomethane	**23.2**	D	µg/kg		20.0		116	70-130	6	30
1,2-Dichlorobenzene	**22.7**	D	µg/kg		20.0		114	70-130	6	30
1,3-Dichlorobenzene	**22.1**	D	µg/kg		20.0		110	70-130	5	30
1,4-Dichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130	7	30
Dichlorodifluoromethane (Freon12)	**17.6**	D	µg/kg		20.0		88	70-130	5	30
1,1-Dichloroethane	**21.4**	D	µg/kg		20.0		107	70-130	5	30
1,2-Dichloroethane	**22.2**	D	µg/kg		20.0		111	70-130	8	30
1,1-Dichloroethene	**18.2**	D	µg/kg		20.0		91	70-130	4	30
cis-1,2-Dichloroethene	**22.6**	D	µg/kg		20.0		113	70-130	5	30
trans-1,2-Dichloroethene	**21.1**	D	µg/kg		20.0		106	70-130	4	30
1,2-Dichloropropane	**22.0**	D	µg/kg		20.0		110	70-130	7	30
1,3-Dichloropropane	**22.4**	D	µg/kg		20.0		112	70-130	7	30
2,2-Dichloropropane	**22.1**	D	µg/kg		20.0		110	70-130	1	30
1,1-Dichloropropene	**19.4**	D	µg/kg		20.0		97	70-130	4	30
cis-1,3-Dichloropropene	**20.8**	D	µg/kg		20.0		104	70-130	5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS Dup (1717338-BSD1)						Prepared & Analyzed: 12-Oct-17				
trans-1,3-Dichloropropene	**21.0**	D	µg/kg		20.0		105	70-130	5	30
Ethylbenzene	**22.0**	D	µg/kg		20.0		110	70-130	4	30
Hexachlorobutadiene	**19.2**	D	µg/kg		20.0		96	70-130	8	30
2-Hexanone (MBK)	**19.4**	D	µg/kg		20.0		97	70-130	6	30
Isopropylbenzene	**20.7**	D	µg/kg		20.0		103	70-130	4	30
4-Isopropyltoluene	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Methyl tert-butyl ether	**23.0**	D	µg/kg		20.0		115	70-130	6	30
4-Methyl-2-pentanone (MIBK)	**20.6**	D	µg/kg		20.0		103	70-130	11	30
Methylene chloride	**21.3**	D	µg/kg		20.0		107	70-130	6	30
Naphthalene	**21.7**	D	µg/kg		20.0		108	70-130	7	30
n-Propylbenzene	**20.7**	D	µg/kg		20.0		104	70-130	6	30
Styrene	**21.1**	D	µg/kg		20.0		106	70-130	4	30
1,1,1,2-Tetrachloroethane	**22.2**	D	µg/kg		20.0		111	70-130	5	30
1,1,2,2-Tetrachloroethane	**22.2**	D	µg/kg		20.0		111	70-130	8	30
Tetrachloroethene	**19.0**	D	µg/kg		20.0		95	70-130	3	30
Toluene	**21.2**	D	µg/kg		20.0		106	70-130	5	30
1,2,3-Trichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130	7	30
1,2,4-Trichlorobenzene	**20.5**	D	µg/kg		20.0		102	70-130	5	30
1,3,5-Trichlorobenzene	**21.2**	D	µg/kg		20.0		106	70-130	4	30
1,1,1-Trichloroethane	**20.1**	D	µg/kg		20.0		101	70-130	3	30
1,1,2-Trichloroethane	**23.2**	D	µg/kg		20.0		116	70-130	6	30
Trichloroethene	**20.6**	D	µg/kg		20.0		103	70-130	3	30
Trichlorofluoromethane (Freon 11)	**18.4**	D	µg/kg		20.0		92	70-130	3	30
1,2,3-Trichloropropane	**23.7**	D	µg/kg		20.0		118	70-130	8	30
1,2,4-Trimethylbenzene	**21.9**	D	µg/kg		20.0		110	70-130	5	30
1,3,5-Trimethylbenzene	**21.6**	D	µg/kg		20.0		108	70-130	5	30
Vinyl chloride	**21.3**	D	µg/kg		20.0		107	70-130	12	30
m,p-Xylene	**22.4**	D	µg/kg		20.0		112	70-130	4	30
o-Xylene	**23.2**	D	µg/kg		20.0		116	70-130	4	30
Tetrahydrofuran	**21.3**	D	µg/kg		20.0		106	70-130	8	30
Ethyl ether	**23.6**	D	µg/kg		20.0		118	70-130	8	30
Tert-amyl methyl ether	**22.3**	D	µg/kg		20.0		112	70-130	8	30
Ethyl tert-butyl ether	**23.1**	D	µg/kg		20.0		116	70-130	7	30
Di-isopropyl ether	**21.6**	D	µg/kg		20.0		108	70-130	7	30
Tert-Butanol / butyl alcohol	**210**	D	µg/kg		200		105	70-130	4	30
1,4-Dioxane	**181**	D	µg/kg		200		91	70-130	2	30
trans-1,4-Dichloro-2-butene	**18.7**	D	µg/kg		20.0		93	70-130	1	30
Ethanol	**411**	D	µg/kg		400		103	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/kg		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg		*50.0*		*102*	*70-130*		
SW846 8260C TICs										
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)						Prepared & Analyzed: 11-Oct-17				
Tentatively Identified Compounds	**None found**		µg/kg wet							
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)						Prepared & Analyzed: 12-Oct-17				
Tentatively Identified Compounds	**0.0**	U, D	µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Acenaphthene	< 66.5	U	µg/kg wet	66.5						
Acenaphthylene	< 66.5	U	µg/kg wet	66.5						
Aniline	< 329	U	µg/kg wet	329						
Anthracene	< 66.5	U	µg/kg wet	66.5						
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329						
Benzidine	< 329	U	µg/kg wet	329						
Benzo (a) anthracene	< 66.5	U	µg/kg wet	66.5						
Benzo (a) pyrene	< 66.5	U	µg/kg wet	66.5						
Benzo (b) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzo (g,h,i) perylene	< 66.5	U	µg/kg wet	66.5						
Benzo (k) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 167	U	µg/kg wet	167						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 167	U	µg/kg wet	167						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.5	U	µg/kg wet	66.5						
Dibenzo (a,h) anthracene	< 66.5	U	µg/kg wet	66.5						
Dibenzofuran	< 167	U	µg/kg wet	167						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3´-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 167	U	µg/kg wet	167						
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.5	U	µg/kg wet	66.5						
Fluorene	< 66.5	U	µg/kg wet	66.5						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 66.5	U	µg/kg wet	66.5						
Isophorone	< 167	U	µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
2-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.5	U	µg/kg wet	66.5						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						
4-Nitroaniline	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
2-Nitrophenol	< 167	U	µg/kg wet	167						
4-Nitrophenol	< 1320	U	µg/kg wet	1320						
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.5	U	µg/kg wet	66.5						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.5	U	µg/kg wet	66.5						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 167	U	µg/kg wet	167						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	*1170*		µg/kg wet		*1660*		*70*	*30-130*		
Surrogate: 2-Fluorophenol	*989*		µg/kg wet		*1660*		*59*	*30-130*		
Surrogate: Nitrobenzene-d5	*1090*		µg/kg wet		*1660*		*66*	*30-130*		
Surrogate: Phenol-d5	*1140*		µg/kg wet		*1660*		*69*	*30-130*		
Surrogate: Terphenyl-dl4	*1520*		µg/kg wet		*1660*		*92*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*948*		µg/kg wet		*1660*		*57*	*30-130*		
LCS (1717180-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Acenaphthene	**1220**		µg/kg wet	66.6	1670		73	40-140		
Acenaphthylene	**1280**		µg/kg wet	66.6	1670		77	40-140		
Aniline	**788**		µg/kg wet	330	1670		47	40-140		
Anthracene	**993**		µg/kg wet	66.6	1670		60	40-140		
Azobenzene/Diphenyldiazene	**1040**		µg/kg wet	330	1670		62	40-140		
Benzidine	**1730**		µg/kg wet	330	1670		104	40-140		
Benzo (a) anthracene	**1120**		µg/kg wet	66.6	1670		67	40-140		
Benzo (a) pyrene	**1200**		µg/kg wet	66.6	1670		72	40-140		
Benzo (b) fluoranthene	**1160**		µg/kg wet	66.6	1670		70	40-140		
Benzo (g,h,i) perylene	**1060**		µg/kg wet	66.6	1670		63	40-140		
Benzo (k) fluoranthene	**1320**		µg/kg wet	66.6	1670		79	40-140		
Benzoic acid	**175**	QC2, J	µg/kg wet	330	1670		11	30-130		
Benzyl alcohol	**1050**		µg/kg wet	330	1670		63	40-140		
Bis(2-chloroethoxy)methane	**727**		µg/kg wet	330	1670		44	40-140		
Bis(2-chloroethyl)ether	**925**		µg/kg wet	167	1670		56	40-140		
Bis(2-chloroisopropyl)ether	**629**	QC2	µg/kg wet	167	1670		38	40-140		
Bis(2-ethylhexyl)phthalate	**1130**		µg/kg wet	167	1670		68	40-140		
4-Bromophenyl phenyl ether	**917**		µg/kg wet	330	1670		55	40-140		
Butyl benzyl phthalate	**1150**		µg/kg wet	330	1670		69	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS (1717180-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Carbazole	**1500**		µg/kg wet	167	1670		90	40-140		
4-Chloro-3-methylphenol	**1320**		µg/kg wet	330	1670		79	30-130		
4-Chloroaniline	**917**		µg/kg wet	167	1670		55	40-140		
2-Chloronaphthalene	**1510**		µg/kg wet	330	1670		91	40-140		
2-Chlorophenol	**1070**		µg/kg wet	167	1670		64	30-130		
4-Chlorophenyl phenyl ether	**1170**		µg/kg wet	330	1670		70	40-140		
Chrysene	**1230**		µg/kg wet	66.6	1670		74	40-140		
Dibenzo (a,h) anthracene	**1310**		µg/kg wet	66.6	1670		79	40-140		
Dibenzofuran	**1330**		µg/kg wet	167	1670		80	40-140		
1,2-Dichlorobenzene	**1260**		µg/kg wet	330	1670		76	40-140		
1,3-Dichlorobenzene	**1210**		µg/kg wet	330	1670		72	40-140		
1,4-Dichlorobenzene	**1320**		µg/kg wet	330	1670		79	40-140		
3,3´-Dichlorobenzidine	**1760**		µg/kg wet	330	1670		106	40-140		
2,4-Dichlorophenol	**1130**		µg/kg wet	167	1670		68	30-130		
Diethyl phthalate	**1260**		µg/kg wet	330	1670		76	40-140		
Dimethyl phthalate	**1330**		µg/kg wet	330	1670		80	40-140		
2,4-Dimethylphenol	**1030**		µg/kg wet	330	1670		62	30-130		
Di-n-butyl phthalate	**1070**		µg/kg wet	330	1670		64	40-140		
4,6-Dinitro-2-methylphenol	**890**		µg/kg wet	330	1670		53	30-130		
2,4-Dinitrophenol	**658**		µg/kg wet	330	1670		40	30-130		
2,4-Dinitrotoluene	**1480**		µg/kg wet	167	1670		89	40-140		
2,6-Dinitrotoluene	**1380**		µg/kg wet	167	1670		83	40-140		
Di-n-octyl phthalate	**1270**		µg/kg wet	330	1670		76	40-140		
Fluoranthene	**1130**		µg/kg wet	66.6	1670		68	40-140		
Fluorene	**1050**		µg/kg wet	66.6	1670		63	40-140		
Hexachlorobenzene	**1330**		µg/kg wet	167	1670		80	40-140		
Hexachlorobutadiene	**1410**		µg/kg wet	167	1670		84	40-140		
Hexachlorocyclopentadiene	**1910**		µg/kg wet	167	1670		115	40-140		
Hexachloroethane	**1320**		µg/kg wet	167	1670		79	40-140		
Indeno (1,2,3-cd) pyrene	**1240**		µg/kg wet	66.6	1670		75	40-140		
Isophorone	**938**		µg/kg wet	167	1670		56	40-140		
2-Methylnaphthalene	**1380**		µg/kg wet	66.6	1670		83	40-140		
2-Methylphenol	**940**		µg/kg wet	330	1670		56	30-130		
3 & 4-Methylphenol	**1090**		µg/kg wet	330	1670		65	30-130		
Naphthalene	**1170**		µg/kg wet	66.6	1670		70	40-140		
2-Nitroaniline	**1100**		µg/kg wet	330	1670		66	40-140		
3-Nitroaniline	**1520**		µg/kg wet	330	1670		91	40-140		
4-Nitroaniline	**999**		µg/kg wet	167	1670		60	40-140		
Nitrobenzene	**1250**		µg/kg wet	167	1670		75	40-140		
2-Nitrophenol	**1120**		µg/kg wet	167	1670		67	30-130		
4-Nitrophenol	**1150**	J	µg/kg wet	1320	1670		69	30-130		
N-Nitrosodimethylamine	**878**		µg/kg wet	167	1670		53	40-140		
N-Nitrosodi-n-propylamine	**913**		µg/kg wet	167	1670		55	40-140		
N-Nitrosodiphenylamine	**1070**		µg/kg wet	330	1670		64	40-140		
Pentachlorophenol	**564**		µg/kg wet	330	1670		34	30-130		
Phenanthrene	**1040**		µg/kg wet	66.6	1670		63	40-140		
Phenol	**1100**		µg/kg wet	330	1670		66	30-130		
Pyrene	**1170**		µg/kg wet	66.6	1670		70	40-140		
Pyridine	**680**		µg/kg wet	330	1670		41	40-140		
1,2,4-Trichlorobenzene	**1300**		µg/kg wet	330	1670		78	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS (1717180-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
1-Methylnaphthalene	**1200**		µg/kg wet	66.6	1670		72	40-140		
2,4,5-Trichlorophenol	**1320**		µg/kg wet	330	1670		79	30-130		
2,4,6-Trichlorophenol	**1200**		µg/kg wet	167	1670		72	30-130		
Pentachloronitrobenzene	**1480**		µg/kg wet	330	1670		89	40-140		
1,2,4,5-Tetrachlorobenzene	**1250**		µg/kg wet	330	1670		75	40-140		
Surrogate: 2-Fluorobiphenyl	*1180*		µg/kg wet		*1670*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*904*		µg/kg wet		*1670*		*54*	*30-130*		
Surrogate: Nitrobenzene-d5	*1010*		µg/kg wet		*1670*		*61*	*30-130*		
Surrogate: Phenol-d5	*1090*		µg/kg wet		*1670*		*65*	*30-130*		
Surrogate: Terphenyl-dl4	*1270*		µg/kg wet		*1670*		*76*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1010*		µg/kg wet		*1670*		*61*	*30-130*		
LCS Dup (1717180-BSD1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Acenaphthene	**1170**		µg/kg wet	66.4	1660		71	40-140	4	30
Acenaphthylene	**1220**		µg/kg wet	66.4	1660		74	40-140	5	30
Aniline	**767**		µg/kg wet	329	1660		46	40-140	3	30
Anthracene	**967**		µg/kg wet	66.4	1660		58	40-140	3	30
Azobenzene/Diphenyldiazene	**995**		µg/kg wet	329	1660		60	40-140	4	30
Benzidine	**1690**		µg/kg wet	329	1660		102	40-140	2	30
Benzo (a) anthracene	**1050**		µg/kg wet	66.4	1660		63	40-140	6	30
Benzo (a) pyrene	**1180**		µg/kg wet	66.4	1660		71	40-140	1	30
Benzo (b) fluoranthene	**1310**		µg/kg wet	66.4	1660		79	40-140	12	30
Benzo (g,h,i) perylene	**1060**		µg/kg wet	66.4	1660		64	40-140	0.2	30
Benzo (k) fluoranthene	**1090**		µg/kg wet	66.4	1660		65	40-140	19	30
Benzoic acid	**208**	QC2, J	µg/kg wet	329	1660		13	30-130	17	30
Benzyl alcohol	**1070**		µg/kg wet	329	1660		64	40-140	1	30
Bis(2-chloroethoxy)methane	**670**		µg/kg wet	329	1660		40	40-140	8	30
Bis(2-chloroethyl)ether	**855**		µg/kg wet	166	1660		51	40-140	8	30
Bis(2-chloroisopropyl)ether	**651**	QC2	µg/kg wet	166	1660		39	40-140	3	30
Bis(2-ethylhexyl)phthalate	**1090**		µg/kg wet	166	1660		66	40-140	3	30
4-Bromophenyl phenyl ether	**902**		µg/kg wet	329	1660		54	40-140	2	30
Butyl benzyl phthalate	**1120**		µg/kg wet	329	1660		67	40-140	3	30
Carbazole	**1440**		µg/kg wet	166	1660		87	40-140	4	30
4-Chloro-3-methylphenol	**1140**		µg/kg wet	329	1660		68	30-130	15	30
4-Chloroaniline	**871**		µg/kg wet	166	1660		52	40-140	5	30
2-Chloronaphthalene	**1460**		µg/kg wet	329	1660		88	40-140	3	30
2-Chlorophenol	**1010**		µg/kg wet	166	1660		61	30-130	6	30
4-Chlorophenyl phenyl ether	**1140**		µg/kg wet	329	1660		69	40-140	3	30
Chrysene	**1200**		µg/kg wet	66.4	1660		72	40-140	2	30
Dibenzo (a,h) anthracene	**1210**		µg/kg wet	66.4	1660		73	40-140	8	30
Dibenzofuran	**1300**		µg/kg wet	166	1660		78	40-140	3	30
1,2-Dichlorobenzene	**1260**		µg/kg wet	329	1660		76	40-140	0.4	30
1,3-Dichlorobenzene	**1130**		µg/kg wet	329	1660		68	40-140	6	30
1,4-Dichlorobenzene	**1220**		µg/kg wet	329	1660		74	40-140	7	30
3,3´-Dichlorobenzidine	**1700**		µg/kg wet	329	1660		102	40-140	3	30
2,4-Dichlorophenol	**1040**		µg/kg wet	166	1660		63	30-130	8	30
Diethyl phthalate	**1180**		µg/kg wet	329	1660		71	40-140	7	30
Dimethyl phthalate	**1300**		µg/kg wet	329	1660		78	40-140	2	30
2,4-Dimethylphenol	**932**		µg/kg wet	329	1660		56	30-130	10	30
Di-n-butyl phthalate	**1110**		µg/kg wet	329	1660		67	40-140	4	30
4,6-Dinitro-2-methylphenol	**847**		µg/kg wet	329	1660		51	30-130	5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1717180 - SW846 3546										
LCS Dup (1717180-BSD1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
2,4-Dinitrophenol	**615**		µg/kg wet	329	1660		37	30-130	7	30
2,4-Dinitrotoluene	**1400**		µg/kg wet	166	1660		84	40-140	5	30
2,6-Dinitrotoluene	**1340**		µg/kg wet	166	1660		81	40-140	3	30
Di-n-octyl phthalate	**1260**		µg/kg wet	329	1660		76	40-140	1	30
Fluoranthene	**1100**		µg/kg wet	66.4	1660		66	40-140	2	30
Fluorene	**975**		µg/kg wet	66.4	1660		59	40-140	7	30
Hexachlorobenzene	**1240**		µg/kg wet	166	1660		75	40-140	7	30
Hexachlorobutadiene	**1230**		µg/kg wet	166	1660		74	40-140	13	30
Hexachlorocyclopentadiene	**1760**		µg/kg wet	166	1660		106	40-140	8	30
Hexachloroethane	**1300**		µg/kg wet	166	1660		79	40-140	1	30
Indeno (1,2,3-cd) pyrene	**1150**		µg/kg wet	66.4	1660		69	40-140	8	30
Isophorone	**888**		µg/kg wet	166	1660		53	40-140	6	30
2-Methylnaphthalene	**1130**		µg/kg wet	66.4	1660		68	40-140	20	30
2-Methylphenol	**954**		µg/kg wet	329	1660		57	30-130	2	30
3 & 4-Methylphenol	**1100**		µg/kg wet	329	1660		66	30-130	1	30
Naphthalene	**1050**		µg/kg wet	66.4	1660		63	40-140	11	30
2-Nitroaniline	**1050**		µg/kg wet	329	1660		63	40-140	5	30
3-Nitroaniline	**1550**		µg/kg wet	329	1660		94	40-140	2	30
4-Nitroaniline	**987**		µg/kg wet	166	1660		59	40-140	1	30
Nitrobenzene	**1180**		µg/kg wet	166	1660		71	40-140	6	30
2-Nitrophenol	**1030**		µg/kg wet	166	1660		62	30-130	9	30
4-Nitrophenol	**1090**	J	µg/kg wet	1310	1660		65	30-130	6	30
N-Nitrosodimethylamine	**752**		µg/kg wet	166	1660		45	40-140	15	30
N-Nitrosodi-n-propylamine	**924**		µg/kg wet	166	1660		56	40-140	1	30
N-Nitrosodiphenylamine	**1010**		µg/kg wet	329	1660		61	40-140	6	30
Pentachlorophenol	**532**		µg/kg wet	329	1660		32	30-130	6	30
Phenanthrene	**1040**		µg/kg wet	66.4	1660		62	40-140	0.6	30
Phenol	**1030**		µg/kg wet	329	1660		62	30-130	7	30
Pyrene	**1210**		µg/kg wet	66.4	1660		73	40-140	3	30
Pyridine	**558**	QC2	µg/kg wet	329	1660		34	40-140	20	30
1,2,4-Trichlorobenzene	**1250**		µg/kg wet	329	1660		75	40-140	4	30
1-Methylnaphthalene	**1140**		µg/kg wet	66.4	1660		69	40-140	5	30
2,4,5-Trichlorophenol	**1270**		µg/kg wet	329	1660		76	30-130	4	30
2,4,6-Trichlorophenol	**1160**		µg/kg wet	166	1660		70	30-130	3	30
Pentachloronitrobenzene	**1470**		µg/kg wet	329	1660		88	40-140	1	30
1,2,4,5-Tetrachlorobenzene	**1160**		µg/kg wet	329	1660		70	40-140	7	30
Surrogate: 2-Fluorobiphenyl	*1180*		µg/kg wet		*1660*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*888*		µg/kg wet		*1660*		*53*	*30-130*		
Surrogate: Nitrobenzene-d5	*1000*		µg/kg wet		*1660*		*60*	*30-130*		
Surrogate: Phenol-d5	*1050*		µg/kg wet		*1660*		*63*	*30-130*		
Surrogate: Terphenyl-dl4	*1410*		µg/kg wet		*1660*		*85*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1000*		µg/kg wet		*1660*		*60*	*30-130*		
SW846 8270D TICS										
Batch 1717180 - SW846 3546										
Blank (1717180-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Tentatively Identified Compounds	**None found**		µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1717183 - SW846 3546										
Blank (1717183-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Aroclor-1016	< 19.9	U	µg/kg wet	19.9						
Aroclor-1016 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268 [2C]	< 19.9	U	µg/kg wet	19.9						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.0*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.0*		µg/kg wet		*19.9*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*19.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.9*		µg/kg wet		*19.9*		*80*	*30-150*		
LCS (1717183-BS1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Aroclor-1016	**146**		µg/kg wet	19.4	243		60	40-140		
Aroclor-1016 [2C]	**171**		µg/kg wet	19.4	243		70	40-140		
Aroclor-1260	**161**		µg/kg wet	19.4	243		66	40-140		
Aroclor-1260 [2C]	**199**		µg/kg wet	19.4	243		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.6*		µg/kg wet		*19.4*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*12.6*		µg/kg wet		*19.4*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.4*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.5*		µg/kg wet		*19.4*		*80*	*30-150*		
LCS Dup (1717183-BSD1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Aroclor-1016	**167**		µg/kg wet	19.5	244		68	40-140	13	30
Aroclor-1016 [2C]	**169**		µg/kg wet	19.5	244		69	40-140	1	30
Aroclor-1260	**173**		µg/kg wet	19.5	244		71	40-140	7	30
Aroclor-1260 [2C]	**182**		µg/kg wet	19.5	244		75	40-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.7*		µg/kg wet		*19.5*		*65*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.6*		µg/kg wet		*19.5*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.5*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.6*		µg/kg wet		*19.5*		*80*	*30-150*		

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 9045D										
Batch 1716875 - General Preparation										
Reference (1716875-SRM1)						Prepared & Analyzed: 05-Oct-17				
pH	**6.07**		pH Units		6.00		101	97.5-102.5		
Reference (1716875-SRM2)						Prepared & Analyzed: 05-Oct-17				
pH	**6.04**		pH Units		6.00		101	97.5-102.5		
SW846 Ch. 7.3										
Batch 1717083 - General Preparation										
Blank (1717083-BLK1)						Prepared & Analyzed: 06-Oct-17				
Reactivity	**See Narrative**		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
Reference (1717083-SRM1)						Prepared & Analyzed: 06-Oct-17				
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0	13400		0	0-200		
Reference (1717083-SRM2)						Prepared & Analyzed: 06-Oct-17				
Reactive Cyanide	**26.0**		mg/kg wet	25.0	200		13	0-200		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW6010C										
Batch 404449A - 404449-										
BLK (BZ16411-BLK)					Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Chromium	< 0.32		mg/kg	0.32				-		
Cadmium	< 0.32		mg/kg	0.32				-		
Lead	< 0.32		mg/kg	0.32				-		
Silver	< 0.32		mg/kg	0.32				-		
Barium	< 0.32		mg/kg	0.32				-		
Arsenic	< 0.64		mg/kg	0.64				-		
Selenium	< 1.3		mg/kg	1.3				-		
DUP (BZ16411-DUP)			**Source: BZ16411**		Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Arsenic	**1.25**		mg/kg	0.65				-	NC	30
Barium	**275**		mg/kg	0.34				-	0.0	30
Selenium	< 1.3		mg/kg	1.3				-	NC	30
Lead	**8.94**		mg/kg	0.32				-	42.6	30
Silver	< 0.32		mg/kg	0.32				-	NC	30
Cadmium	< 0.32		mg/kg	0.32				-	NC	30
Chromium	**35.1**		mg/kg	0.32				-	59.0	30
LCS (BZ16411-LCS)					Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Chromium	**103.1**		mg/kg	0.32	131		78.7	75-125		30
Barium	**197.5**		mg/kg	0.32	253		78.1	75-125		30
Lead	**78.75**		mg/kg	0.32	83.8		94.0	75-125		30
Selenium	**66.17**		mg/kg	1.3	73.7		89.8	75-125		30
Arsenic	**89.52**		mg/kg	0.64	115		77.8	75-125		30
Cadmium	**76.55**		mg/kg	0.32	99.8		76.7	75-125		30
Silver	**38.47**		mg/kg	0.32	48.1		80.0	75-125		30
MS (BZ16411-MS)			**Source: BZ16411**		Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Lead	**274.6**		mg/kg	0.32	261.6		103	75-125		30
Barium	**338.7**		mg/kg	0.32	130.8		123	75-125		30
Selenium	**91.94**		mg/kg	1.3	130.8		85.7	75-125		30
Silver	**33.43**		mg/kg	0.32	32.71		103	75-125		30
Chromium	**166.4**		mg/kg	0.32	130.8		77.9	75-125		30
Arsenic	**240.3**		mg/kg	0.64	261.6		91.5	75-125		30
Cadmium	**120.3**		mg/kg	0.32	130.8		91.8	75-125		30
SW7471B										
Batch 404534A - 404534-										
BLK (BZ15280-BLK)					Prepared & Analyzed: 09-Oct-17					
Mercury	< 0.02		mg/kg	0.02				-		
DUP (BZ15280-DUP)			**Source: BZ15280**		Prepared & Analyzed: 09-Oct-17					
Mercury	< 0.03		mg/kg	0.03				-	NC	30
LCS (BZ15280-LCS)					Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1191**		mg/kg	0.02	0.1449		82.2	70-130		30
LCSD (BZ15280-LCSD)					Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1327**		%		0.1515		87.6	70-130	6.4	30
MS (BZ15280-MS)			**Source: BZ15280**		Prepared & Analyzed: 09-Oct-17					
Mercury	**0.1805**		mg/kg	0.02	.16393437		110	75-125		30
SW8081B										
Batch 404584A - 404584-										
BLK (BZ15917-BLK)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
d-BHC	**ND**		ug/Kg	3.3				-		
Chlordane	**ND**		ug/Kg	33				-		
4,4' -DDD	**ND**		ug/Kg	1.7				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
BLK (BZ15917-BLK)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
b-BHC	**ND**		ug/Kg	1.0				-		
Aldrin	**ND**		ug/Kg	1.0				-		
a-Chlordane	**ND**		ug/Kg	3.3				-		
4,4' -DDT	**ND**		ug/Kg	1.7				-		
Endrin aldehyde	**ND**		ug/Kg	3.3				-		
4,4' -DDE	**ND**		ug/Kg	1.7				-		
a-BHC	**ND**		ug/Kg	1.0				-		
Dieldrin	**ND**		ug/Kg	1.0				-		
Endosulfan I	**ND**		ug/Kg	3.3				-		
Endosulfan II	**ND**		ug/Kg	3.3				-		
Endrin	**ND**		ug/Kg	3.3				-		
Endrin ketone	**ND**		ug/Kg	3.3				-		
g-BHC	**ND**		ug/Kg	1.0				-		
g-Chlordane	**ND**		ug/Kg	3.3				-		
Heptachlor	**ND**		ug/Kg	3.3				-		
Heptachlor epoxide	**ND**		ug/Kg	3.3				-		
Methoxychlor	**ND**		ug/Kg	3.3				-		
Toxaphene	**ND**		ug/Kg	130				-		
Endosulfan sulfate	**ND**		ug/Kg	3.3				-		
Surrogate: % TCMX	*68*		ug/Kg		*100*			*30-150*		
Surrogate: % DCBP	*64*		ug/Kg		*100*			*30-150*		
LCS (BZ15917-LCS)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Endosulfan I	**43.54**		ug/Kg	3.3	50		87	40-140		30
d-BHC	**42.54**		ug/Kg	3.3	50		85	40-140		30
Endrin aldehyde	**36.76**		ug/Kg	3.3	50		74	40-140		30
Endrin ketone	**40.52**		ug/Kg	3.3	50		81	40-140		30
g-BHC	**44.16**		ug/Kg	1.0	50		88	40-140		30
g-Chlordane	**41.06**		ug/Kg	3.3	50		82	40-140		30
Heptachlor	**39.73**		ug/Kg	3.3	50		79	40-140		30
Heptachlor epoxide	**42.93**		ug/Kg	3.3	50		86	40-140		30
Endosulfan sulfate	**41.90**		ug/Kg	3.3	50		84	40-140		30
Endosulfan II	**44.50**		ug/Kg	3.3	50		89	40-140		30
Dieldrin	**37.29**		ug/Kg	1.0	50		75	40-140		30
Methoxychlor	**41.39**		ug/Kg	3.3	50		83	40-140		30
Toxaphene	**ND**		ug/Kg	130	50		NA	40-140		30
Endrin	**42.83**		ug/Kg	3.3	50		86	40-140		30
Chlordane	**41.06**		ug/Kg	33	50		82	40-140		30
b-BHC	**43.75**		ug/Kg	1.0	50		88	40-140		30
Aldrin	**39.62**		ug/Kg	1.0	50		79	40-140		30
a-Chlordane	**42.53**		ug/Kg	3.3	50		85	40-140		30
a-BHC	**45.97**		ug/Kg	1.0	50		92	40-140		30
4,4' -DDT	**51.25**		ug/Kg	1.7	50		103	40-140		30
4,4' -DDE	**41.10**		ug/Kg	1.7	50		82	40-140		30
4,4' -DDD	**44.07**		ug/Kg	1.7	50		88	40-140		30
Surrogate: % TCMX	*85.19*		ug/Kg		*100*		*85*	*30-150*		
Surrogate: % DCBP	*80.92*		ug/Kg		*100*		*81*	*30-150*		
LCSD (BZ15917-LCSD)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Dieldrin	**46.05**		%	%	50		92	40-140	20.4	30
d-BHC	**45.41**		%	%	50		91	40-140	6.8	30
4,4' -DDD	**47.05**		%	%	50		94	40-140	6.6	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
LCSD (BZ15917-LCSD)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
4,4' -DDE	**44.70**		%	%	50		89	40-140	8.2	30
4,4' -DDT	**51.48**		%	%	50		103	40-140	0.0	30
a-BHC	**47.49**		%	%	50		95	40-140	3.2	30
a-Chlordane	**45.32**		%	%	50		91	40-140	6.8	30
Aldrin	**42.11**		%	%	50		84	40-140	6.1	30
b-BHC	**46.02**		%	%	50		92	40-140	4.4	30
Endosulfan II	**47.31**		%	%	50		95	40-140	6.5	30
Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
Toxaphene	**ND**		%	%	50		NA	40-140	NC	30
Endosulfan I	**46.58**		%	%	50		93	40-140	6.7	30
Endosulfan sulfate	**43.93**		%	%	50		88	40-140	4.7	30
Endrin	**45.74**		%	%	50		91	40-140	5.6	30
Endrin aldehyde	**40.39**		%	%	50		81	40-140	9.0	30
Endrin ketone	**42.29**		%	%	50		85	40-140	4.8	30
g-BHC	**46.92**		%	%	50		94	40-140	6.6	30
g-Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
Heptachlor	**42.13**		%	%	50		84	40-140	6.1	30
Heptachlor epoxide	**46.51**		%	%	50		93	40-140	7.8	30
Methoxychlor	**45.37**		%	%	50		91	40-140	9.2	30
Surrogate: % TCMX	*91.37*		%		*100*		*91*	*30-150*		
Surrogate: % DCBP	*92.94*		%		*100*		*93*	*30-150*		
MSD (BZ15917-MSD)			**Source: BZ15917**		Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Heptachlor epoxide	**37.24**		%	%	50		74	30-150		30
Endosulfan sulfate	**38.83**		%	%	50		77	30-150		30
Toxaphene	**ND**		%	%	50		NA	30-150		30
Methoxychlor	**41.12**		%	%	50		82	30-150		30
Heptachlor	**38.06**		%	%	50		74	30-150		30
g-Chlordane	**62.68**		%	%	50		61	30-150		30
g-BHC	**35.01**		%	%	50		70	30-150		30
Endrin ketone	**34.49**		%	%	50		69	30-150		30
Endrin	**47.47**		%	%	50		95	30-150		30
Endosulfan II	**48.45**		%	%	50		97	30-150		30
Endosulfan I	**35.19**		%	%	50		68	30-150		30
Dieldrin	**42.36**		%	%	50		75	30-150		30
4,4' -DDD	**55.02**		%	%	50		84	30-150		30
Chlordane	**62.68**		%	%	50		61	30-150		30
b-BHC	**26.94**		%	%	50		54	30-150		30
Aldrin	**32.59**		%	%	50		63	30-150		30
a-Chlordane	**90.99**		%	%	50		59	30-150		30
Endrin aldehyde	**40.88**		%	%	50		74	30-150		30
a-BHC	**39.49**		%	%	50		77	30-150		30
4,4' -DDT	**56.58**		%	%	50		89	30-150		30
4,4' -DDE	**38.49**		%	%	50		67	30-150		30
d-BHC	**34.40**		%	%	50		69	30-150		30
Surrogate: % DCBP	*73.79*		%		*100*		*74*	*30-150*		
Surrogate: % TCMX	*76.21*		%		*100*		*76*	*30-150*		
SW8151A										
Batch 404600A - 404600-										
BLK (BZ16866-BLK)					Prepared: 06-Oct-17 Analyzed: 09-Oct-17					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8151A										
Batch 404600A - 404600-										
BLK (BZ16866-BLK)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
2,4,5-T	**ND**		ug/Kg	83				-		
2,4,5-TP (Silvex)	**ND**		ug/Kg	83				-		
2,4-D	**ND**		ug/Kg	170				-		
2,4-DB	**ND**		ug/Kg	1700				-		
Dalapon	**ND**		ug/Kg	83				-		
Dicamba	**ND**		ug/Kg	83				-		
Dichloroprop	**ND**		ug/Kg	170				-		
Dinoseb	**ND**		ug/Kg	170				-		
Surrogate: % DCAA	*58*		ug/Kg		*1000*			*30-150*		
LCS (BZ16866-LCS)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
2,4,5-T	**60.79**		ug/Kg	83	100		61	40-140		30
2,4,5-TP (Silvex)	**64.13**		ug/Kg	83	100		64	40-140		30
2,4-D	**119.8**		ug/Kg	170	200		60	40-140		30
2,4-DB	**622.8**		ug/Kg	1700	1000		62	40-140		30
Dalapon	**43.00**		ug/Kg	83	100		43	40-140		30
Dicamba	**72.78**		ug/Kg	83	100		73	40-140		30
Dichloroprop	**157.1**		ug/Kg	170	200		79	40-140		30
Dinoseb	**56.09**		ug/Kg	170	100		56	40-140		30
Surrogate: % DCAA	*524.4*		ug/Kg		*1000*		*52*	*30-150*		
LCSD (BZ16866-LCSD)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
2,4,5-T	**67.24**		ug/Kg	%	100		67	40-140	9.4	30
Dichloroprop	**165.7**		ug/Kg	%	200		83	40-140	4.9	30
Dicamba	**74.87**		ug/Kg	%	100		75	40-140	2.7	30
Dalapon	**44.17**		ug/Kg	%	100		44	40-140	2.3	30
2,4-DB	**708.3**		ug/Kg	%	1000		71	40-140	13.5	30
2,4,5-TP (Silvex)	**66.71**		ug/Kg	%	100		67	40-140	4.6	30
Dinoseb	**58.61**		ug/Kg	%	100		59	40-140	5.2	30
2,4-D	**126.1**		ug/Kg	%	200		63	40-140	4.9	30
Surrogate: % DCAA	*543.3*		ug/Kg		*1000*		*54*	*30-150*		
MS (BZ16866-MS)			**Source: BZ16866**			Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Dalapon	**57.96**	r	ug/Kg	83	100		58	30-150		30
Dinoseb	**60.74**		ug/Kg	170	100		61	30-150		30
Dichloroprop	**155.2**		ug/Kg	170	200		78	30-150		30
Dicamba	**70.95**		ug/Kg	83	100		71	30-150		30
2,4-DB	**651.4**		ug/Kg	1700	1000		65	30-150		30
2,4-D	**127.0**		ug/Kg	170	200		64	30-150		30
2,4,5-TP (Silvex)	**62.75**		ug/Kg	83	100		63	30-150		30
2,4,5-T	**61.01**		ug/Kg	83	100		61	30-150		30
Surrogate: % DCAA	*525.6*		ug/Kg		*1000*		*53*	*30-150*		
MSD (BZ16866-MSD)			**Source: BZ16866**			Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Dichloroprop	**154.7**		%	%	200		77	30-150	1.3	30
2,4,5-T	**77.04**		%	%	100		77	30-150	23.2	30
2,4,5-TP (Silvex)	**61.88**		%	%	100		62	30-150	1.6	30
2,4-D	**137.9**		%	%	200		69	30-150	7.5	30
2,4-DB	**625.2**		%	%	1000		63	30-150	3.1	30
Dalapon	**37.80**	r	%	%	100		38	30-150	41.7	30
Dicamba	**70.25**		%	%	100		70	30-150	1.4	30
Dinoseb	**63.67**		%	%	100		64	30-150	4.8	30
Surrogate: % DCAA	*522.0*		%		*1000*		*52*	*30-150*		

Analyte(s)	Column	% Breakdown	Limit

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC40022-01	*Disposal Pile-1*	10/2/2017 3:50 PM

Notes and Definitions

D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
IgHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
SAC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
SBN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC40022 Bm

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Day Environmental, Inc.
1563 Lyell Avenue
Rochester New York 14606

Telephone #: 585-454-0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o SolEpoxy, Inc
211 Franklin St.
Olean, NY 14760

P.O No.: 8696 Quote #: _____

Project No: 48845-13
Site Name: C905043 (202 Franklin St.)
Location: Olean State: NY
Sampler(s): C. Hampton

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Methanol 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 9/11 — None

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	RCRA8 - pa chrom	Full list VOCs	Full list SVOCs	Pesticides (8081)	Herbicides (8151)	PCB (8082)	Flush (1030)	Corrosivity (9045)	Reactivity-Sulfide Reactivity-Cyanide	Check if chlorinated	QA/QC Reporting Notes: * additional charges may appply
SC40022-01	Disposal Pile-1	9/29/17	10:00	G	SO	3	3			X	X	X	X	X	X	X	X	X/X	☐	Composite (3:1) 802
02	Disposal-Pile-1-(Comp)									↑		↑						↑	☐	Sample Jars and run single sample for tests listed
													See Note:						☐	
																			☐	Added RCRA8 per client. Bm 10/5
																			☐	Added comp sample per client note - Bm
																			☐	Note: Samples frozen on 9/29/17 10/5

Relinquished by:	Received by:	Date:	Time:	Temp °C
Cap Smith	Cap Smith	10/2/17	15:50	Observed 2.2
Cap Smith	[signature]	10/3/17	1229	Correction Factor 0
				Corrected 2.2
				IR ID # CAS 3 10/2/17

☐ EDD format:
☑ E-mail to: chrampton@daymail.net

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☒ DI VOA Frozen ☐ Soil Jar Frozen

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: _____
State-specific reporting standards:

4/04/2

Batch Summary

'[none]'

Subcontracted Analyses

SC40022-02 (Disposal Pile-1-Comp)

1716875

Toxicity Characteristics

1716875-SRM1
1716875-SRM2
SC40022-02 (Disposal Pile-1-Comp)

1716984

General Chemistry Parameters

SC40022-01 (Disposal Pile-1)

1717010

General Chemistry Parameters

SC40022-02 (Disposal Pile-1-Comp)

1717013

Toxicity Characteristics

SC40022-02 (Disposal Pile-1-Comp)

1717019

General Chemistry Parameters

SC40022-02 (Disposal Pile-1-Comp)

1717083

Toxicity Characteristics

1717083-BLK1
1717083-SRM1
1717083-SRM2
SC40022-02 (Disposal Pile-1-Comp)

1717180

Semivolatile Organic Compounds by GCMS

1717180-BLK1
1717180-BS1
1717180-BSD1
SC40022-02 (Disposal Pile-1-Comp)

1717183

Semivolatile Organic Compounds by GC

1717183-BLK1
1717183-BS1
1717183-BSD1
SC40022-02 (Disposal Pile-1-Comp)

1717293

Volatile Organic Compounds

1717293-BLK1
1717293-BS1
1717293-BSD1
SC40022-01 (Disposal Pile-1)

1717338

Volatile Organic Compounds

1717338-BLK1
1717338-BS1
1717338-BSD1
SC40022-01RE1 (Disposal Pile-1)
SC40022-01RE2 (Disposal Pile-1)

404449A

Subcontracted Analyses

BZ16411-BLK
BZ16411-DUP
BZ16411-LCS
BZ16411-MS
SC40022-02 (Disposal Pile-1-Comp)

404534A

Subcontracted Analyses

BZ15280-BLK
BZ15280-DUP
BZ15280-LCS
BZ15280-LCSD
BZ15280-MS
SC40022-02 (Disposal Pile-1-Comp)

404584A

Subcontracted Analyses

BZ15917-BLK
BZ15917-LCS
BZ15917-LCSD
BZ15917-MSD
SC40022-02 (Disposal Pile-1-Comp)

404600A

Subcontracted Analyses

BZ16866-BLK
BZ16866-LCS
BZ16866-LCSD
BZ16866-MS
BZ16866-MSD
SC40022-02 (Disposal Pile-1-Comp)

S705626

Semivolatile Organic Compounds by GC

S705626-CAL1
S705626-CAL2
S705626-CAL3
S705626-CAL4
S705626-CAL5
S705626-CAL6
S705626-CAL7
S705626-CAL8
S705626-CAL9
S705626-CALA
S705626-CALB
S705626-CALC
S705626-CALD
S705626-CALE
S705626-CALF
S705626-CALG
S705626-CALH
S705626-CALI
S705626-CALJ
S705626-CALK
S705626-CALL
S705626-CALM
S705626-CALN
S705626-CALO
S705626-CALP
S705626-CALQ
S705626-CALR
S705626-CALS
S705626-CALT
S705626-CALU
S705626-ICV1
S705626-ICV2
S705626-ICV3
S705626-ICV4
S705626-ICV5
S705626-ICV6
S705626-LCV1
S705626-LCV2
S705626-LCV3
S705626-LCV4
S705626-LCV5
S705626-LCV6

S708282

Semivolatile Organic Compounds by GCMS

S708282-CAL1
S708282-CAL2
S708282-CAL3
S708282-CAL4
S708282-CAL5
S708282-CAL6
S708282-CAL7
S708282-CAL8
S708282-CAL9
S708282-CALA
S708282-ICV1
S708282-LCV1
S708282-LCV2
S708282-TUN1

S708708

Volatile Organic Compounds

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S708827

Volatile Organic Compounds

S708827-CAL1
S708827-CAL2
S708827-CAL3
S708827-CAL4
S708827-CAL5
S708827-CAL6
S708827-CAL7
S708827-CAL8
S708827-CAL9
S708827-ICV1
S708827-LCV1
S708827-LCV2
S708827-TUN1

S708971

Volatile Organic Compounds

S708971-CCV1
S708971-TUN1

S708992

Semivolatile Organic Compounds by GCMS

S708992-CCV1
S708992-TUN1

S709007

Volatile Organic Compounds

S709007-CCV1
S709007-TUN1

S709011

Semivolatile Organic Compounds by GC

S709011-CCV1
S709011-CCV2
S709011-CCV3
S709011-CCV4
S709011-IBL1
S709011-IBL2
S709011-IBL3

S709017

Semivolatile Organic Compounds by GCMS

S709017-CCV1
S709017-TUN1

S709024

Semivolatile Organic Compounds by GC

S709024-CCV1
S709024-CCV2
S709024-CCV3
S709024-CCV4
S709024-IBL1
S709024-IBL2

APPENDIX F

TANK CLOSURE REPORT

UNDERGROUND STORAGE TANK
CLOSURE REPORT

Day Environmental Personnel on-site:	**C. Hampton**
Project #:	**4884S-13**
Dates of Removal:	**September 25-29, 2017**
Weather/Temperature:	**Clear / 60 - 80°F**

1. PROPERTY LOCATION

Name of Facility:	NYSDEC Brownfield Cleanup Program (BCP) Site #C905043
Street:	202 Franklin Street
Town & State:	Olean, New York

2. REMOVAL CONTRACTOR

Contractor Name(s):	Richard Peck Construction (RPC)
	Sun Environmental Services (SUN)

3. CLIENT NAME AND PHONE #: Silence DoGood, LLC c/o SolEpoxy, Inc. (716) 372 - 6300

4. NYSDEC NOTIFIED OF REMOVAL? YES (BCP Project Manager on-site)

5. UNDERGROUND UTILITY STAKEOUT FILE#: 09067-186-017

6. TANK/PIPING DESCRIPTION:

Tank Dimensions:	32.8’ Length, 6.4’ Diameter

Take Pictures of each side of each tank

Tank Size:	~ 8,000 gal. capacity
Vol. of product left in tank:	~ 40 gal.
Tank Age:	Unknown
Tank composition:	Steel

6. TANK/PIPING DESCRIPTON: (cont.)

External protection:	None (single wall steel shell, riveted seams)
Holes in tank/piping:	Tank: none observed; Piping: N/A (not connected)
Tank integrity/condition:	Rusty interior, scale on exterior
Pitting/corrosion/scale:	Yes
Condition of flanges	Intact. Piping disconnected
Condition of Piping (e.g., fillport, ventpipe distribution lines, etc.):	Fill port and vent pipe disconnected. Distribution line, connected at the UST invert on the south end wall is broken-off
Secondary Containment:	None
Leak Detection:	None

7. DETERMINATION OF CONTAMINATION:

Evidence that tank had leaked?	Yes. Impacted soil observed to south of the UST end wall, below the elevation of the UST invert.
Depth to bedrock:	Greater than 50 ft. bgs
Depth to groundwater:	15.2 ft. bgs to 17.9 ft. bgs (based on RI)
Sheen on groundwater?	Groundwater not encountered
Soil lithology (e.g., clay):	FMC SAND and GRAVEL, little silt, trace clay
Stained/discolored soils?	Yes
Depth of discolored soils:	Starting ~ 11.5 ft. bgs; extending to 15+ ft. bgs.
Petroleum odors from soils?	No. Solvent type odors noted
Peak PID readings on ambient headspace air above selected soil samples (ppm):	360 ppm - >500 ppm
Background PID readings:	0.0 ppm – 0.2 ppm

7. DETERMINATION OF CONTAMINATION: (Cont.)

Discolored soils stockpiled:	Northeast portion of employee parking lot, placed on asphalt and double layer of poly sheet.
Volume of soils stockpiled:	~ 50 cubic yards
Groundwater well installed:	No
Photographs of tank walls:	Refer to photo log in Appendix C of the C905043 construction completion report (CCR).

8. LAB ANALYSIS:

Confirmatory soil samples collected?	Yes
Sample location(s):	Refer to Figure 3 of the C905043 CCR
Lab analysis	Refer to Appendix G of the C905043 CCR
Lab results:	Refer to Table 1 through Table 3 of the C905043 CCR.

9. TANK CLEANING/WASTE GENERATION:

Sludge in tank (gal.)	None observed.
Tank cleaning method:	Pressure wash in place and vacuum purge
Vapors displacement method:	Nitrogen gas
Vol. of washwaters generated:	~ 125 gal.
Storage/staging of washwaters:	Drained from vacuum truck into 3 55-gal. steel drums. Drums staged adjacent to soil pile on double layer of poly sheeting.
Washwater & sludge disposal:	Transported under uniform hazardous waste manifest 007931912 JJK to Cycle Chem, Inc. in Lewisberry, PA.
Tank cut up on-site:	No
Tank destination:	Ben Weitsman of Allegany, LLC 34-38 West Union Street, Allegany NY
Contractor hauling tank:	Richard Peck Construction

10. PHOTOGRAPHS:

Refer to photo log in Appendix C of the C905043 construction completion report (CCR).

11. FATE OF EXCAVATION:

Filled/capped (e.g., gravel) — Filled with clean excavation spoils and import fill material from NYSDEC approved pit.

Dimensions of Excavation	L-shaped: 54 ft. x 14ft. (N-S); 21 ft. by 12 ft. (E_W)
Peak PID Readings on East Wall and Depth	0.0 ppm ~11.5' bgs
Peak PID Readings on West Wall and Depth	0.0 ppm ~11.5' bgs
Peak PID Readings on South Wall and Depth	35 ppm ~15.5' bgs
Peak PID Readings on North Wall and Depth	0.0 ppm ~ 11.5 ft bgs
Security Fencing present overnight	Yes. Installed nightly 9/25/17 to 9/29/17
12. NEAREST BUILDING/UTILITY:	SolEpoxy Inc. faclilty/overhead electrical
14. WASTE CHARACTERIZATION OF SOIL	Refer to Waste Management (WM) profile 1184969NY documents in Appendix D of the C905043 CCR.
15. SOIL DISPOSAL	Transported by D&H trucking under WM profile 1184969NY to the Waste Management landfill in Chafee, New York on January 9, 2018 for disposal.

APPENDIX G

WASTE DISPOSAL DOCUMENTATION FOR UST FLUIDS AND SCRAP METAL

Mark Wendel

From: Richard Peck <peckconstruction@yahoo.com>
Sent: Wednesday, January 10, 2018 11:56 AM
To: Mark Wendel; Charles Hampton
Subject: Information
Attachments: img01102018_0001.pdf

Mark and Charlie,

I have attached the information you requested
regarding backfill material and demarcation specifications.

The address for vegetation disposal: 3755 Birch Run Rd., Allegany, NY

If there is any thing else I can do please let me know.

Sincerely,
Kelly L. Woodgie
Richard L. Peck Construction, Inc.
63 South 7th St., Allegany, NY 14706
(716) 373-2006
PeckConstruction@yahoo.com

Sent from Yahoo Mail. Get the app

copy

BEN WEITSMAN OF ALLEGANY, LLC
34-38 WEST UNION STREET
ALLEGANY, NY 14706
716-372-0542

M&T BANK
COMMERCIAL BANKING
68 EXCHANGE ST. 2ND FLR.
BINGHAMTON, NY 13901

50-7063/2213

5031

		DATE	AMOUNT
Ticket# 124609 1369		10/12/2017	$512.05

PAY ******FIVE HUNDRED TWELVE AND 05 / 100

TO THE ORDER OF
RICHARD PECK CONSTRUCTION
63 SOUTH 7TH STREET
ALLEGANY, NY, 14706

BEN WEITSMAN OF ALLEGANY, LLC

5031

Ticket# 124609 1369 10/12/2017

Ticket #	124609	By cbeebee	Cert N147060.	Date /Time	10/12/2017	9:11:47 AM

Code	Description	Gross	Tare	Net	Price	Amount
AG405	Shearing	35,440.00	28,040.00	7,400.00	155.00	512.05
						512.05

Print Name: RICHARD PECK CONSTRUC Sign X
Address: 63 SOUTH 7TH STREET ALLEGANY
ID # : PECK1 Vehicle:

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000233627
2. Page 1 of: 1
3. Emergency Response Phone: 800-807-7455
4. Manifest Tracking Number: 007931912 JJK

5. Generator's Name and Mailing Address
SOLEPOXY, INC.
211 FRANKLIN ST.
OLEAN NY 14760
Attn: ROBERT GROELE
Generator's Phone: 716 372 6300 X200

Generator's Site Address (if different than mailing address)
SOLEPOXY, INC.
202 FRANKLIN ST.
OLEAN NY 14760

6. Transporter 1 Company Name: SUN ENVIRONMENTAL CORP.
U.S. EPA ID Number: NYR000176956

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CYCLE CHEM, INC.
550 INDUSTRIAL DR.
LEWISBERRY PA 17339
Facility's Phone: 717 938 4750
U.S. EPA ID Number: PAD067000822

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S.(ACETONE, ALCOHOL, WATER MIXTURE) 3, PGII ERG#128	003	DM	01320	P	D001
	2.					
	3.					
	4.					

GENERATOR

14. Special Handling Instructions and Additional Information
JOB # SOLE.1000 PO# R38970
1. SUN102-WR3-A (55 GAL / HANDLING CODE B / SIGNED PROFILE & LDR ATTACHED)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Robert J. Groele
Signature: Robert J. Groele
Month: 11 Day: 8 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Todd Leadbetter
Signature:
Month: 11 Day: 8 Year: 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: John Dixon
Signature:
Month: 11 Day: 10 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

From: Robert Groele <Robert.Groele@solepoxy.com>
Sent: Wednesday, October 18, 2017 4:04 PM
To: Mark Wendel; Ray Kampff; Charles Hampton
Cc: Nick Harding
Subject: RE: USEPA RCRA Site Identification Form -SolEpoxy. Inc.

New EPA ID for 202 Franklin

NYR000233627

Thanks,

Robert J. Groele
SolEpoxy, Inc.
Vice President of Engineering
Phone: 716.372.6300 x 290
Cell: 716.378.8631
Fax: 716.372.6864
211 Franklin St., Olean, NY 14760
mailto:robert.groele@solepoxy.com
http://www.solepoxy.com

From: Castro, Lilian [mailto:castro.lilian@epa.gov]
Sent: Wednesday, October 18, 2017 3:18 PM
To: Robert Groele <Robert.Groele@solepoxy.com>
Subject: RE: USEPA RCRA Site Identification Form -SolEpoxy. Inc

Dear Robert Groele,

Thank you for your message. This email is to inform you that your application has been processed.

The EPA ID# for SolEpoxy. Inc is NYR000233627

Please confirm receipt of this email.

Please let me know if you may have any questions.

Kind regards,

Lilian Castro
Management Technology, Inc.
U.S. Environmental Protection Agency (EPA)
P: 212-637-3127 | E: castro.lilian@epa.gov

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Sun Environmental Corp.

For Lab Project ID

174338

Referencing

SOLE.1000.2109, Solepoxy Inc.

Prepared

Wednesday, October 4, 2017

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 174338

Client: **Sun Environmental Corp.**

Project Reference: SOLE.1000.2109, Solepoxy Inc.

Sample Identifier:	Tank Liquid Drums		
Lab Sample ID:	174338-01	**Date Sampled:**	9/26/2017
Matrix:	Water	**Date Received:**	9/27/2017

Flash Point

Analyte	Result	Units	Qualifier	Date Analyzed
Flash Point, Celsius	**18.0**	C		10/3/2017

Method Reference(s): EPA 1010A

ELAP does not offer this test for approval as part of their laboratory certification program.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PO# R38903 1 of 2 5 of 6

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:			INVOICE TO:			
CLIENT: Sun Environmental			CLIENT: Same			LAB PROJECT ID: 174338
ADDRESS: 4665 Crossroads Park Dr			ADDRESS:			Quotation #:
CITY: Liverpool	STATE: NY	ZIP: 13088	CITY:	STATE:	ZIP:	Email:
PHONE: 585-436-5660			PHONE:			
ATTN: Steve Rinker			ATTN:			

PROJECT REFERENCE
SOLE.0000.2109
Solepoxy Inc.

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Flashpoint	REMARKS	PARADIGM LAB SAMPLE NUMBER
9/26/17	1600	X		Tank liquid Drums	WA	1	X		01

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

John Hanobik	9/26/17 1600	Total Cost:
Sampled By	Date/Time	
Sherrie Lynch	9/27/17 1108	
Relinquished By	Date/Time	
David M Doh	9-27-17 1108	P.I.F.
Received By	Date/Time	
JR	9/27/17 13:33	
Received @ Lab By	Date/Time	

6°C iced 9/27/17 11:21

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: Sun Environmental **Completed by:** Glen Pezzulo

Lab Project ID: 174338 **Date:** 9/27/17

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	6°C : iced		
Sufficient Sample Quantity	X		
Comments			

APPENDIX H

ANALYTICAL LABORATORY REPORTS, CHAIN OF CUSTODY DOCUMENTATION AND DUSR FOR UST REMOVAL AREA CONFIRMATORY SOIL SAMPLES

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
16-Oct-17 12:19

Laboratory Report
SC39977

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Charles Hampton

Project: 202 Franklin St. - Olean, NY
Project #: 4884S-13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Dawn E Wojcik

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 132 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC39977

Project: 202 Franklin St. - Olean, NY

Project Number: 4884S-13

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC39977-01	UST CS-1	Soil	28-Sep-17 08:10	02-Oct-17 15:50
SC39977-02	UST CS-2	Soil	28-Sep-17 08:20	02-Oct-17 15:50
SC39977-03	UST CS-3	Soil	28-Sep-17 08:30	02-Oct-17 15:50
SC39977-04	UST CS-4	Soil	28-Sep-17 08:40	02-Oct-17 15:50
SC39977-05	UST CS-5	Soil	28-Sep-17 08:50	02-Oct-17 15:50
SC39977-06	UST CS-6	Soil	28-Sep-17 09:00	02-Oct-17 15:50
SC39977-07	UST CS-7	Soil	28-Sep-17 09:40	02-Oct-17 15:50
SC39977-08	UST EX-8	Soil	28-Sep-17 13:53	02-Oct-17 15:50
SC39977-09	UST EX-9	Soil	28-Sep-17 14:25	02-Oct-17 15:50
SC39977-10	UST EX-10	Soil	28-Sep-17 15:45	02-Oct-17 15:50
SC39977-11	Trip Blank	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17 15:50
SC39977-12	UST CS-COMP	Soil	28-Sep-17 00:00	02-Oct-17 15:50

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 2.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Sample Compositing Narrative:

Sample SC39977-12 Container A was composited on October 05, 2017 per client request from: SC39977-01 Container D 100.78g; SC39977-02 Container D 99.89g; SC39977-03 Container D 100.12g; SC39977-04 Container D 100.95g.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW6010C

Laboratory Control Samples:

BZ15902-LCS

This parameter is outside laboratory lcs/lcsd specified recovery limits.

Arsenic
Cadmium
Chromium
Cobalt
Nickel
Thallium

BZ15902-MS

This parameter is outside laboratory ms/msd specified recovery limits.

Potassium
Sodium

SW8015D MOD

BZ15400-MS

This parameter is outside laboratory ms/msd specified recovery limits.

n-Butanol

SW8081B

SW8081B

Laboratory Control Samples:

BZ16154-LCS

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

BZ15917-MS

This parameter is outside laboratory rpd specified recovery limits.

4,4' -DDT
a-Chlordane
Endosulfan II

BZ15917-MSD

This parameter is outside laboratory rpd specified recovery limits.

4,4' -DDT
a-Chlordane
Endosulfan II

BZ16154-BLK

SW8081B

BZ16154-BLK

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

BZ16154-LCSD

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

BZ16154-MS

SW8081B

BZ16154-MS

[Undefined]

Chlordane

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

This parameter is outside laboratory ms/msd specified recovery limits.

Chlordane

BZ16154-MSD

[Undefined]

Chlordane

SW8081B

BZ16154-MSD

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

This parameter is outside laboratory ms/msd specified recovery limits.

Chlordane

SW846 6010C

Laboratory Control Samples:

1717184 SRM/SRMD

Cadmium percent recoveries (82/87) are outside individual acceptance criteria (83.1-116.9), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-8
UST EX-9

Cobalt percent recoveries (82/84) are outside individual acceptance criteria (84-115.8), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-8
UST EX-9

Lead percent recoveries (81/84) are outside individual acceptance criteria (82-117.3), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-8
UST EX-9

SW846 6010C

Laboratory Control Samples:

1717184 SRM/SRMD

Nickel percent recoveries (81/83) are outside individual acceptance criteria (82.9-117.1), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-8
UST EX-9

Zinc percent recoveries (81/83) are outside individual acceptance criteria (83-117), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-8
UST EX-9

Spikes:

1717184-MS1 *Source: SC39977-08*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Antimony
Cadmium
Cobalt
Lead
Nickel
Zinc

1717184-MSD1 *Source: SC39977-08*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Antimony
Cadmium
Cobalt
Lead
Nickel
Zinc

1717431-MS1 *Source: SC39977-08*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Calcium
Iron
Magnesium
Manganese

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Chromium
Potassium

1717431-MSD1 *Source: SC39977-08*

SW846 6010C

Spikes:

1717431-MSD1 *Source: SC39977-08*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Calcium
Iron
Magnesium
Manganese

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Potassium

1717431-PS1 *Source: SC39977-08*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Iron
Magnesium

Duplicates:

1717184-DUP1 *Source: SC39977-08*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Antimony
Beryllium
Selenium

1717431-DUP1 *Source: SC39977-08*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Manganese

Samples:

SC39977-08 *UST EX-8*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Manganese

SC39977-09 *UST EX-9*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Manganese

SC39977-10 *UST EX-10*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Calcium
Magnesium
Manganese

SW846 7471B

Spikes:

1717185-MSD1 *Source: SC39977-08*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.

Mercury

SW846 8082A

Samples:

SC39977-08 *UST EX-8*

The Reporting Limit has been raised to account for matrix interference.

SC39977-09 *UST EX-9*

The Reporting Limit has been raised to account for matrix interference.

SC39977-10 *UST EX-10*

The Reporting Limit has been raised to account for matrix interference.

SC39977-12 *UST CS-COMP*

The Reporting Limit has been raised to account for matrix interference.

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

SW846 8260C

Calibration:

1710003

This affected the following samples:

1717131-BLK1
1717131-BS1
1717131-BSD1
1717197-BLK1
1717197-BS1
1717197-BSD1
1717293-BLK1
1717293-BS1
1717293-BSD1
1717335-BLK1
1717335-BS1
1717335-BSD1
S708708-ICV1
S708901-CCV1
S708932-CCV1
S708971-CCV1
S709003-CCV1
Trip Blank
UST CS-1
UST CS-2
UST CS-3
UST CS-4
UST CS-5
UST CS-6
UST CS-7
UST EX-10
UST EX-9

1710009

Analyte quantified by quadratic equation type calibration.

1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,2-Dibromoethane (EDB)
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Bromochloromethane
Bromodichloromethane
Bromoform
Carbon disulfide
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
Styrene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

S708827-ICV1

SW846 8260C

Laboratory Control Samples:

1717131 BS/BSD

Acetone percent recoveries (135/154) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST CS-2
UST CS-3
UST CS-4
UST CS-5
UST CS-6
UST CS-7

Tert-amyl methyl ether percent recoveries (130/142) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST CS-2
UST CS-3
UST CS-4
UST CS-5
UST CS-6
UST CS-7

1717131 BSD

4-Methyl-2-pentanone (MIBK) RPD 31% (30%) is outside individual acceptance criteria.

1717197 BS/BSD

1,4-Dioxane percent recoveries (68/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-1

Tert-amyl methyl ether percent recoveries (142/142) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST CS-1

trans-1,4-Dichloro-2-butene percent recoveries (73/63) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-1

1717290 BS/BSD

Bromomethane percent recoveries (139/149) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

Trip Blank
UST CS-7
UST EX-9

1717293 BS/BSD

2,2-Dichloropropane percent recoveries (63/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank

Bromoform percent recoveries (70/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank

SW846 8260C

Laboratory Control Samples:

1717293 BS/BSD

trans-1,4-Dichloro-2-butene percent recoveries (61/60) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Trip Blank

1717335 BS/BSD

2,2-Dichloropropane percent recoveries (64/65) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-9

Acetone percent recoveries (131/128) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST EX-10
UST EX-9

Bromoform percent recoveries (69/71) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-9

Tert-amyl methyl ether percent recoveries (133/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST EX-10
UST EX-9

trans-1,4-Dichloro-2-butene percent recoveries (62/66) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST EX-10
UST EX-9

1717338 BS/BSD

Bromomethane percent recoveries (158/160) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

UST EX-8

Samples:

S708901-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Chloroethane (23.1%)
Tert-amyl methyl ether (29.8%)
Trichlorofluoromethane (Freon 11) (29.4%)
Vinyl chloride (26.2%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-23.5%)
Acetone (35.4%)
Naphthalene (-29.9%)
trans-1,4-Dichloro-2-butene (-29.5%)

SW846 8260C

Samples:

S708901-CCV1

This affected the following samples:

1717131-BLK1
1717131-BS1
1717131-BSD1
UST CS-2
UST CS-3
UST CS-4
UST CS-5
UST CS-6
UST CS-7

S708932-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-28.0%)
Bromoform (-27.5%)
Chloroethane (25.6%)
Methyl tert-butyl ether (-23.4%)
Tert-amyl methyl ether (41.0%)
Trichlorofluoromethane (Freon 11) (27.8%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-25.0%)
Acetone (40.2%)
trans-1,4-Dichloro-2-butene (-37.0%)

This affected the following samples:

1717197-BLK1
1717197-BS1
1717197-BSD1
UST CS-1

S708970-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Chloroethane (26.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (27.7%)
Vinyl chloride (42.1%)

This affected the following samples:

1717290-BLK1
1717290-BS1
1717290-BSD1
Trip Blank
UST CS-7
UST EX-9

S708971-CCV1

SW846 8260C

Samples:

S708971-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-36.6%)
Bromoform (-25.7%)
Carbon tetrachloride (-25.0%)
Ethyl ether (26.7%)
Tert-amyl methyl ether (33.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (41.7%)
trans-1,4-Dichloro-2-butene (-35.1%)

This affected the following samples:

1717293-BLK1
1717293-BS1
1717293-BSD1
Trip Blank

S709003-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2-Dibromo-3-chloropropane (-20.1%)
2,2-Dichloropropane (-35.8%)
Bromoform (-30.7%)
Methyl tert-butyl ether (-23.8%)
Tert-amyl methyl ether (33.1%)
Tert-Butanol / butyl alcohol (-23.5%)
trans-1,3-Dichloropropene (-25.1%)
Vinyl chloride (27.3%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-27.3%)
Acetone (30.8%)
Naphthalene (-24.6%)
trans-1,4-Dichloro-2-butene (-38.4%)

This affected the following samples:

1717335-BLK1
1717335-BS1
1717335-BSD1
UST EX-10
UST EX-9

S709007-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (59.9%)

This affected the following samples:

1717338-BLK1
1717338-BS1
1717338-BSD1
UST EX-8

SC39977-03 *UST CS-3*

SW846 8260C

Samples:

SC39977-03 *UST CS-3*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC39977-05 *UST CS-5*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC39977-08 *UST EX-8*

Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.

SC39977-09 *UST EX-9*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SW846 8260C TICs

Samples:

SC39977-08 *UST EX-8*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Benzene, 1,4-dimethyl-2-(2-...
Naphthalene, decahydro-2-me...
trans-Decalin, 2-methyl-

SC39977-09RE1 *UST EX-9*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Cyclohexane, 2-butyl-1,1,3-...
Dodecane, 2,7,10-trimethyl-
Naphthalene, decahydro-2-me...

SC39977-10 *UST EX-10*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Cyclohexane, 2-butyl-1,1,3-...
trans,trans-1,6-Dimethylspi...

SW846 8270D

Calibration:

1709033

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Benzoic acid
Carbazole

SW846 8270D

Calibration:

1709033

This affected the following samples:

S708282-ICV1

Laboratory Control Samples:

1716926 BS/BSD

Benzoic acid percent recoveries (19/21) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

Bis(2-chloroethoxy)methane percent recoveries (36/37) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

Bis(2-chloroisopropyl)ether percent recoveries (36/34) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

N-Nitrosodimethylamine percent recoveries (40/38) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

Pyridine percent recoveries (30/31) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

1716926 BSD

Benzidine RPD 37% (30%) is outside individual acceptance criteria.

Samples:

S708922-CCV1

SW846 8270D

Samples:

S708922-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,4,5-Trichlorophenol (25.1%)
3-Nitroaniline (20.5%)
4-Chlorophenyl phenyl ether (33.8%)
Acenaphthylene (20.1%)
Benzidine (22.9%)
Dibenzo (a,h) anthracene (20.7%)
Diethyl phthalate (33.7%)
Dimethyl phthalate (26.7%)
Di-n-octyl phthalate (21.2%)
Hexachlorocyclopentadiene (20.6%)
N-Nitrosodimethylamine (-25.6%)
Pyridine (-28.3%)

This affected the following samples:

1716926-BLK1
1716926-BS1
1716926-BSD1
UST CS-COMP
UST EX-10
UST EX-8
UST EX-9

SC39977-12 *UST CS-COMP*

The Reporting Limit has been raised to account for matrix interference.

SW846 8270D TICS

Blanks:

1716926-BLK1

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Cyclohexasiloxane, dodecame...
Cyclopentasiloxane, decamet...

Samples:

SC39977-08 *UST EX-8*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Nonane, 2-methyl-

SC39977-09 *UST EX-9*

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1,2,4,6-Tetrathiepane
Dodecane, 2,6,10-trimethyl-
Heptadecane, 2,6-dimethyl-

SC39977-12 *UST CS-COMP*

The Reporting Limit has been raised to account for matrix interference.

Sample Acceptance Check Form

Client:	Day Environmental, Inc.
Project:	202 Franklin St. - Olean, NY / 4884S-13
Work Order:	SC39977
Sample(s) received on:	10/2/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC39977-05 **Client ID:** UST CS-5

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	12.2	J	26.9	µg/kg	SW846 8260C

Lab ID: SC39977-06 **Client ID:** UST CS-6

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	70.1		30.0	µg/kg	SW846 8260C

Lab ID: SC39977-07 **Client ID:** UST CS-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	755	E	28.4	µg/kg	SW846 8260C

Lab ID: SC39977-07RE1 **Client ID:** UST CS-7

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Toluene	22.0	J, D	52.3	µg/kg	SW846 8260C

Lab ID: SC39977-08 **Client ID:** UST EX-8

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	4120		4.99	mg/kg	SW846 6010C
Antimony	0.379	J	4.99	mg/kg	SW846 6010C
Arsenic	3.60		1.50	mg/kg	SW846 6010C
Barium	20.4		0.997	mg/kg	SW846 6010C
Beryllium	0.147	J	0.499	mg/kg	SW846 6010C
Calcium	58900	GS1, D	249	mg/kg	SW846 6010C
Chromium	4.20		0.997	mg/kg	SW846 6010C
Cobalt	4.04		0.997	mg/kg	SW846 6010C
Copper	13.9		0.997	mg/kg	SW846 6010C
Iron	7490		3.99	mg/kg	SW846 6010C
Lead	4.39		1.50	mg/kg	SW846 6010C
Magnesium	2550		4.99	mg/kg	SW846 6010C
Manganese	1550	GS1, D	9.97	mg/kg	SW846 6010C
Nickel	8.95		0.997	mg/kg	SW846 6010C
Potassium	703		49.9	mg/kg	SW846 6010C
Selenium	0.803	J	1.50	mg/kg	SW846 6010C
Sodium	67.3		24.9	mg/kg	SW846 6010C
Vanadium	6.74		1.50	mg/kg	SW846 6010C
Zinc	40.4		0.997	mg/kg	SW846 6010C
Ethanol	3710	J, D	7020	µg/kg	SW846 8260C
Naphthalene	27.7	J, D	35.1	µg/kg	SW846 8260C
n-Propylbenzene	8.08	J, D	35.1	µg/kg	SW846 8260C
sec-Butylbenzene	12.3	J, D	35.1	µg/kg	SW846 8260C
tert-Butylbenzene	41.4	D	35.1	µg/kg	SW846 8260C

Lab ID: SC39977-09 **Client ID:** UST EX-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	6150		5.32	mg/kg	SW846 6010C
Arsenic	3.69		1.60	mg/kg	SW846 6010C
Barium	25.2		1.06	mg/kg	SW846 6010C
Beryllium	0.248	J	0.532	mg/kg	SW846 6010C
Calcium	52800	GS1, D	133	mg/kg	SW846 6010C
Chromium	4.43		1.06	mg/kg	SW846 6010C
Cobalt	4.15		1.06	mg/kg	SW846 6010C
Copper	14.1		1.06	mg/kg	SW846 6010C
Iron	7940		4.26	mg/kg	SW846 6010C
Lead	4.13		1.60	mg/kg	SW846 6010C
Magnesium	3000		5.32	mg/kg	SW846 6010C
Manganese	969	GS1, D	5.32	mg/kg	SW846 6010C
Nickel	9.70		1.06	mg/kg	SW846 6010C
Potassium	518		53.2	mg/kg	SW846 6010C
Selenium	0.543	J	1.60	mg/kg	SW846 6010C
Sodium	61.5		26.6	mg/kg	SW846 6010C
Vanadium	5.52		1.60	mg/kg	SW846 6010C
Zinc	52.0		1.06	mg/kg	SW846 6010C
Acetone	198	D	157	µg/kg	SW846 8260C
Carbon disulfide	215	D	62.7	µg/kg	SW846 8260C
Tert-Butanol / butyl alcohol	739	D	314	µg/kg	SW846 8260C
tert-Butylbenzene	7.84	J, D	31.4	µg/kg	SW846 8260C
Fluoranthene	40.4	J	72.2	µg/kg	SW846 8270D
Phenanthrene	65.6	J	72.2	µg/kg	SW846 8270D

Lab ID: SC39977-09RE1 **Client ID:** UST EX-9

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	462	E	18.7	µg/kg	SW846 8260C
Carbon disulfide	30.4		3.74	µg/kg	SW846 8260C
Tert-Butanol / butyl alcohol	593		18.7	µg/kg	SW846 8260C
tert-Butylbenzene	2.62		1.87	µg/kg	SW846 8260C

Lab ID: SC39977-10 **Client ID:** UST EX-10

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	3120		4.92	mg/kg	SW846 6010C
Antimony	0.462	J	4.92	mg/kg	SW846 6010C
Arsenic	2.89		1.48	mg/kg	SW846 6010C
Barium	21.6		0.984	mg/kg	SW846 6010C
Beryllium	0.0836	J	0.492	mg/kg	SW846 6010C
Calcium	95400	GS1, D	246	mg/kg	SW846 6010C
Chromium	3.28		0.984	mg/kg	SW846 6010C
Cobalt	2.44		0.984	mg/kg	SW846 6010C
Copper	13.4		0.984	mg/kg	SW846 6010C
Iron	6780		3.94	mg/kg	SW846 6010C
Lead	5.28		1.48	mg/kg	SW846 6010C
Magnesium	18400	GS1, D	49.2	mg/kg	SW846 6010C
Manganese	1430	GS1, D	9.84	mg/kg	SW846 6010C
Nickel	6.62		0.984	mg/kg	SW846 6010C
Potassium	566		49.2	mg/kg	SW846 6010C
Selenium	0.866	J	1.48	mg/kg	SW846 6010C
Sodium	117		24.6	mg/kg	SW846 6010C
Vanadium	5.51		1.48	mg/kg	SW846 6010C
Zinc	37.6		0.984	mg/kg	SW846 6010C
Acetone	16.8		15.1	µg/kg	SW846 8260C
Carbon disulfide	12.2		3.02	µg/kg	SW846 8260C
tert-Butylbenzene	0.80	J	1.51	µg/kg	SW846 8260C

Lab ID: SC39977-12 **Client ID:** UST CS-COMP

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	14000		39	mg/Kg	SW6010C
Arsenic	8.37		0.79	mg/Kg	SW6010C
Barium	73.8		0.8	mg/Kg	SW6010C
Beryllium	0.50		0.31	mg/Kg	SW6010C
Cadmium	0.56		0.39	mg/Kg	SW6010C
Calcium	25100		39	mg/Kg	SW6010C
Chromium	11.7		0.39	mg/Kg	SW6010C
Cobalt	13.6		0.39	mg/Kg	SW6010C
Copper	39.7		0.39	mg/Kg	SW6010C
Iron	18200		39	mg/Kg	SW6010C
Lead	15.1		0.8	mg/Kg	SW6010C
Magnesium	2780		3.9	mg/Kg	SW6010C
Manganese	901		3.9	mg/Kg	SW6010C
Nickel	33.0		0.39	mg/Kg	SW6010C
Potassium	1200		8	mg/Kg	SW6010C
Sodium	109		8	mg/Kg	SW6010C
Vanadium	14.5		0.39	mg/Kg	SW6010C
Zinc	137		0.8	mg/Kg	SW6010C
Anthracene	210	J, D	372	µg/kg	SW846 8270D
Benzo (a) anthracene	390	D	372	µg/kg	SW846 8270D
Benzo (a) pyrene	310	J, D	372	µg/kg	SW846 8270D
Benzo (b) fluoranthene	217	J, D	372	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	162	J, D	372	µg/kg	SW846 8270D
Benzo (k) fluoranthene	340	J, D	372	µg/kg	SW846 8270D
Chrysene	360	J, D	372	µg/kg	SW846 8270D
Fluoranthene	685	D	372	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	197	J, D	372	µg/kg	SW846 8270D
Phenanthrene	858	D	372	µg/kg	SW846 8270D
Phenol	241	J, D	1840	µg/kg	SW846 8270D
Pyrene	589	D	372	µg/kg	SW846 8270D

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-1 SC39977-01	4884S-13	Soil	28-Sep-17 08:10	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 10.85 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.82	U	µg/kg dry	3.82	1.94	1	SW846 8260C	10-Oct-17	10-Oct-17	MP	1717197	X
67-64-1	Acetone	< 38.2	U	µg/kg dry	38.2	15.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.82	U	µg/kg dry	3.82	3.68	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.82	U	µg/kg dry	3.82	1.01	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.82	U	µg/kg dry	3.82	1.02	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.82	U	µg/kg dry	3.82	1.93	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.82	U	µg/kg dry	3.82	2.55	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.82	U	µg/kg dry	3.82	3.65	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 7.65	U	µg/kg dry	7.65	3.45	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.65	U	µg/kg dry	7.65	6.84	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.82	U	µg/kg dry	3.82	1.09	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.82	U	µg/kg dry	3.82	0.70	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.82	U	µg/kg dry	3.82	0.86	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.65	U	µg/kg dry	7.65	2.45	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.82	U	µg/kg dry	3.82	3.13	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.82	U	µg/kg dry	3.82	1.20	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 7.65	U	µg/kg dry	7.65	2.12	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.82	U	µg/kg dry	3.82	2.05	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 7.65	U	µg/kg dry	7.65	1.58	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.82	U	µg/kg dry	3.82	0.95	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.82	U	µg/kg dry	3.82	0.90	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.65	U	µg/kg dry	7.65	5.53	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.82	U	µg/kg dry	3.82	2.59	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.82	U	µg/kg dry	3.82	2.57	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.82	U	µg/kg dry	3.82	1.99	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.82	U	µg/kg dry	3.82	0.99	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.82	U	µg/kg dry	3.82	0.83	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.82	U	µg/kg dry	3.82	1.13	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 7.65	U	µg/kg dry	7.65	1.45	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.82	U	µg/kg dry	3.82	1.00	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.82	U	µg/kg dry	3.82	1.37	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.82	U	µg/kg dry	3.82	2.00	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.82	U	µg/kg dry	3.82	1.42	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.82	U	µg/kg dry	3.82	2.03	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.82	U	µg/kg dry	3.82	2.00	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.82	U	µg/kg dry	3.82	1.98	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.82	U	µg/kg dry	3.82	1.81	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.82	U	µg/kg dry	3.82	1.23	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.82	U	µg/kg dry	3.82	2.31	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.82	U	µg/kg dry	3.82	2.01	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-1	4884S-13	Soil	28-Sep-17 08:10	02-Oct-17
SC39977-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 10.85 g							
100-41-4	Ethylbenzene	< 3.82	U	µg/kg dry	3.82	0.55	1	SW846 8260C	10-Oct-17	10-Oct-17	MP	1717197	X
87-68-3	Hexachlorobutadiene	< 3.82	U	µg/kg dry	3.82	1.92	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 7.65	U	µg/kg dry	7.65	4.69	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.82	U	µg/kg dry	3.82	0.75	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.82	U	µg/kg dry	3.82	0.82	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.82	U	µg/kg dry	3.82	1.41	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 7.65	U	µg/kg dry	7.65	1.97	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 7.65	U	µg/kg dry	7.65	1.52	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.82	U	µg/kg dry	3.82	2.28	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.82	U	µg/kg dry	3.82	0.62	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.82	U	µg/kg dry	3.82	0.77	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.82	U	µg/kg dry	3.82	3.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.82	U	µg/kg dry	3.82	3.24	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.82	U	µg/kg dry	3.82	1.31	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.82	U	µg/kg dry	3.82	1.24	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.82	U	µg/kg dry	3.82	1.34	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.82	U	µg/kg dry	3.82	2.82	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.82	U	µg/kg dry	3.82	1.20	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.82	U	µg/kg dry	3.82	1.27	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.82	U	µg/kg dry	3.82	2.77	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.82	U	µg/kg dry	3.82	1.04	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.82	U	µg/kg dry	3.82	2.06	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.82	U	µg/kg dry	3.82	2.87	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.82	U	µg/kg dry	3.82	0.93	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.82	U	µg/kg dry	3.82	0.66	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.82	U	µg/kg dry	3.82	1.29	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.65	U	µg/kg dry	7.65	0.69	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.82	U	µg/kg dry	3.82	1.07	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.65	U	µg/kg dry	7.65	6.03	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.82	U	µg/kg dry	3.82	3.47	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.82	U	µg/kg dry	3.82	1.28	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.82	U	µg/kg dry	3.82	2.06	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.82	U	µg/kg dry	3.82	0.71	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 38.2	U	µg/kg dry	38.2	25.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 76.5	U	µg/kg dry	76.5	66.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 19.1	U	µg/kg dry	19.1	8.73	1	"	"	"	"	"	X
64-17-5	Ethanol	< 765	U	µg/kg dry	765	143	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*90*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*130*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-1 SC39977-01	4884S-13	Soil	28-Sep-17 08:10	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 10.85 g						
	Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	10-Oct-17	10-Oct-17	MP	1717197	
General Chemistry Parameters													
	% Solids	82.8		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-2 SC39977-02	4884S-13	Soil	28-Sep-17 08:20	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 10.28 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.21	U	µg/kg dry	3.21	1.63	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	< 32.1	U	µg/kg dry	32.1	12.8	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.21	U	µg/kg dry	3.21	3.08	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.21	U	µg/kg dry	3.21	0.85	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.21	U	µg/kg dry	3.21	0.86	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.21	U	µg/kg dry	3.21	1.62	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.21	U	µg/kg dry	3.21	2.14	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.21	U	µg/kg dry	3.21	3.06	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 6.41	U	µg/kg dry	6.41	2.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 6.41	U	µg/kg dry	6.41	5.73	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.21	U	µg/kg dry	3.21	0.92	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.21	U	µg/kg dry	3.21	0.58	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.21	U	µg/kg dry	3.21	0.72	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.41	U	µg/kg dry	6.41	2.05	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.21	U	µg/kg dry	3.21	2.62	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.21	U	µg/kg dry	3.21	1.00	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 6.41	U	µg/kg dry	6.41	1.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.21	U	µg/kg dry	3.21	1.72	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.41	U	µg/kg dry	6.41	1.32	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.21	U	µg/kg dry	3.21	0.80	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.21	U	µg/kg dry	3.21	0.75	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.41	U	µg/kg dry	6.41	4.63	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.21	U	µg/kg dry	3.21	2.17	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.21	U	µg/kg dry	3.21	2.15	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.21	U	µg/kg dry	3.21	1.67	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.21	U	µg/kg dry	3.21	0.83	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.21	U	µg/kg dry	3.21	0.70	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.21	U	µg/kg dry	3.21	0.95	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.41	U	µg/kg dry	6.41	1.22	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.21	U	µg/kg dry	3.21	0.84	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.21	U	µg/kg dry	3.21	1.15	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.21	U	µg/kg dry	3.21	1.68	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.21	U	µg/kg dry	3.21	1.19	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.21	U	µg/kg dry	3.21	1.70	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.21	U	µg/kg dry	3.21	1.68	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.21	U	µg/kg dry	3.21	1.66	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.21	U	µg/kg dry	3.21	1.51	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.21	U	µg/kg dry	3.21	1.03	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.21	U	µg/kg dry	3.21	1.93	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.21	U	µg/kg dry	3.21	1.68	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-2	4884S-13	Soil	28-Sep-17 08:20	02-Oct-17
SC39977-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 10.28 g							
100-41-4	Ethylbenzene	< 3.21	U	µg/kg dry	3.21	0.46	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 3.21	U	µg/kg dry	3.21	1.61	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 6.41	U	µg/kg dry	6.41	3.94	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.21	U	µg/kg dry	3.21	0.63	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.21	U	µg/kg dry	3.21	0.69	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.21	U	µg/kg dry	3.21	1.18	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 6.41	U	µg/kg dry	6.41	1.65	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 6.41	U	µg/kg dry	6.41	1.27	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.21	U	µg/kg dry	3.21	1.91	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.21	U	µg/kg dry	3.21	0.52	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.21	U	µg/kg dry	3.21	0.64	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.21	U	µg/kg dry	3.21	2.73	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.21	U	µg/kg dry	3.21	2.71	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.21	U	µg/kg dry	3.21	1.10	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.21	U	µg/kg dry	3.21	1.04	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.21	U	µg/kg dry	3.21	1.13	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.21	U	µg/kg dry	3.21	2.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.21	U	µg/kg dry	3.21	1.01	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.21	U	µg/kg dry	3.21	1.06	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.21	U	µg/kg dry	3.21	2.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.21	U	µg/kg dry	3.21	0.88	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.21	U	µg/kg dry	3.21	1.73	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.21	U	µg/kg dry	3.21	2.41	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.21	U	µg/kg dry	3.21	0.78	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.21	U	µg/kg dry	3.21	0.55	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.21	U	µg/kg dry	3.21	1.08	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 6.41	U	µg/kg dry	6.41	0.58	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.21	U	µg/kg dry	3.21	0.90	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.41	U	µg/kg dry	6.41	5.05	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.21	U	µg/kg dry	3.21	2.91	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.21	U	µg/kg dry	3.21	1.07	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.21	U	µg/kg dry	3.21	1.73	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.21	U	µg/kg dry	3.21	0.60	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 32.1	U	µg/kg dry	32.1	21.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 64.1	U	µg/kg dry	64.1	55.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 16.0	U	µg/kg dry	16.0	7.32	1	"	"	"	"	"	X
64-17-5	Ethanol	< 641	U	µg/kg dry	641	120	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*129*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-2 SC39977-02	4884S-13	Soil	28-Sep-17 08:20	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 10.28 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
General Chemistry Parameters													
	% Solids	**90.6**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 12.78 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.09	U	µg/kg dry	3.09	1.56	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	< 30.9	U	µg/kg dry	30.9	12.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.09	U	µg/kg dry	3.09	2.96	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.09	U	µg/kg dry	3.09	0.82	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.09	U	µg/kg dry	3.09	0.82	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.09	U	µg/kg dry	3.09	1.56	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.09	U	µg/kg dry	3.09	2.06	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.09	U	µg/kg dry	3.09	2.94	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 6.17	U	µg/kg dry	6.17	2.79	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 6.17	U	µg/kg dry	6.17	5.52	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.09	U	µg/kg dry	3.09	0.88	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.09	U	µg/kg dry	3.09	0.56	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.09	U	µg/kg dry	3.09	0.69	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.17	U	µg/kg dry	6.17	1.97	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.09	U	µg/kg dry	3.09	2.52	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.09	U	µg/kg dry	3.09	0.97	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 6.17	U	µg/kg dry	6.17	1.71	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.09	U	µg/kg dry	3.09	1.66	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.17	U	µg/kg dry	6.17	1.27	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.09	U	µg/kg dry	3.09	0.77	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.09	U	µg/kg dry	3.09	0.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.17	U	µg/kg dry	6.17	4.46	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.09	U	µg/kg dry	3.09	2.09	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.09	U	µg/kg dry	3.09	2.07	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.09	U	µg/kg dry	3.09	1.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.09	U	µg/kg dry	3.09	0.80	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.09	U	µg/kg dry	3.09	0.67	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.09	U	µg/kg dry	3.09	0.91	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.17	U	µg/kg dry	6.17	1.17	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.09	U	µg/kg dry	3.09	0.81	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.09	U	µg/kg dry	3.09	1.10	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.09	U	µg/kg dry	3.09	1.61	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.09	U	µg/kg dry	3.09	1.14	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.09	U	µg/kg dry	3.09	1.64	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.09	U	µg/kg dry	3.09	1.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.09	U	µg/kg dry	3.09	1.60	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.09	U	µg/kg dry	3.09	1.46	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.09	U	µg/kg dry	3.09	0.99	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.09	U	µg/kg dry	3.09	1.86	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.09	U	µg/kg dry	3.09	1.62	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-3	4884S-13	Soil	28-Sep-17 08:30	02-Oct-17
SC39977-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 12.78 g							
100-41-4	Ethylbenzene	< 3.09	U	µg/kg dry	3.09	0.44	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 3.09	U	µg/kg dry	3.09	1.55	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 6.17	U	µg/kg dry	6.17	3.79	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.09	U	µg/kg dry	3.09	0.61	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.09	U	µg/kg dry	3.09	0.66	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.09	U	µg/kg dry	3.09	1.14	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 6.17	U	µg/kg dry	6.17	1.59	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 6.17	U	µg/kg dry	6.17	1.22	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.09	U	µg/kg dry	3.09	1.84	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.09	U	µg/kg dry	3.09	0.50	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.09	U	µg/kg dry	3.09	0.62	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.09	U	µg/kg dry	3.09	2.62	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.09	U	µg/kg dry	3.09	2.61	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.09	U	µg/kg dry	3.09	1.06	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.09	U	µg/kg dry	3.09	1.00	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.09	U	µg/kg dry	3.09	1.08	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.09	U	µg/kg dry	3.09	2.27	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.09	U	µg/kg dry	3.09	0.97	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.09	U	µg/kg dry	3.09	1.02	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.09	U	µg/kg dry	3.09	2.24	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.09	U	µg/kg dry	3.09	0.84	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.09	U	µg/kg dry	3.09	1.66	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.09	U	µg/kg dry	3.09	2.31	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.09	U	µg/kg dry	3.09	0.75	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.09	U	µg/kg dry	3.09	0.53	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.09	U	µg/kg dry	3.09	1.04	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 6.17	U	µg/kg dry	6.17	0.56	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.09	U	µg/kg dry	3.09	0.86	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.17	U	µg/kg dry	6.17	4.86	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.09	U	µg/kg dry	3.09	2.80	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.09	U	µg/kg dry	3.09	1.03	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.09	U	µg/kg dry	3.09	1.66	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.09	U	µg/kg dry	3.09	0.57	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 30.9	U	µg/kg dry	30.9	20.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 61.7	U	µg/kg dry	61.7	53.6	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 15.4	U	µg/kg dry	15.4	7.04	1	"	"	"	"	"	X
64-17-5	Ethanol	< 617	U	µg/kg dry	617	115	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*146*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*108*			*70-130 %*			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-3 SC39977-03	4884S-13	Soil	28-Sep-17 08:30	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 12.78 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
General Chemistry Parameters													
	% Solids	**86.0**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-4 SC39977-04	4884S-13	Soil	28-Sep-17 08:40	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 17.02 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.10	U	µg/kg dry	2.10	1.07	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	< 21.0	U	µg/kg dry	21.0	8.41	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.10	U	µg/kg dry	2.10	2.02	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.10	U	µg/kg dry	2.10	0.56	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.10	U	µg/kg dry	2.10	0.56	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.10	U	µg/kg dry	2.10	1.06	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.10	U	µg/kg dry	2.10	1.40	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.10	U	µg/kg dry	2.10	2.01	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 4.21	U	µg/kg dry	4.21	1.90	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 4.21	U	µg/kg dry	4.21	3.76	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.10	U	µg/kg dry	2.10	0.60	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.10	U	µg/kg dry	2.10	0.38	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 2.10	U	µg/kg dry	2.10	0.47	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 4.21	U	µg/kg dry	4.21	1.35	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.10	U	µg/kg dry	2.10	1.72	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.10	U	µg/kg dry	2.10	0.66	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.21	U	µg/kg dry	4.21	1.17	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.10	U	µg/kg dry	2.10	1.13	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 4.21	U	µg/kg dry	4.21	0.87	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.10	U	µg/kg dry	2.10	0.52	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.10	U	µg/kg dry	2.10	0.49	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 4.21	U	µg/kg dry	4.21	3.04	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.10	U	µg/kg dry	2.10	1.43	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.10	U	µg/kg dry	2.10	1.41	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.10	U	µg/kg dry	2.10	1.09	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.10	U	µg/kg dry	2.10	0.55	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.10	U	µg/kg dry	2.10	0.46	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.10	U	µg/kg dry	2.10	0.62	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.21	U	µg/kg dry	4.21	0.80	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.10	U	µg/kg dry	2.10	0.55	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.10	U	µg/kg dry	2.10	0.75	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.10	U	µg/kg dry	2.10	1.10	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.10	U	µg/kg dry	2.10	0.78	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2.10	U	µg/kg dry	2.10	1.11	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.10	U	µg/kg dry	2.10	1.10	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.10	U	µg/kg dry	2.10	1.09	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.10	U	µg/kg dry	2.10	0.99	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.10	U	µg/kg dry	2.10	0.68	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.10	U	µg/kg dry	2.10	1.27	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.10	U	µg/kg dry	2.10	1.10	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-4	4884S-13	Soil	28-Sep-17 08:40	02-Oct-17
SC39977-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 17.02 g							
100-41-4	Ethylbenzene	< 2.10	U	µg/kg dry	2.10	0.30	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 2.10	U	µg/kg dry	2.10	1.06	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 4.21	U	µg/kg dry	4.21	2.58	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.10	U	µg/kg dry	2.10	0.41	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.10	U	µg/kg dry	2.10	0.45	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.10	U	µg/kg dry	2.10	0.77	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 4.21	U	µg/kg dry	4.21	1.08	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 4.21	U	µg/kg dry	4.21	0.84	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.10	U	µg/kg dry	2.10	1.25	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.10	U	µg/kg dry	2.10	0.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.10	U	µg/kg dry	2.10	0.42	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.10	U	µg/kg dry	2.10	1.79	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.10	U	µg/kg dry	2.10	1.78	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.10	U	µg/kg dry	2.10	0.72	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.10	U	µg/kg dry	2.10	0.68	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 2.10	U	µg/kg dry	2.10	0.74	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.10	U	µg/kg dry	2.10	1.55	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 2.10	U	µg/kg dry	2.10	0.66	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 2.10	U	µg/kg dry	2.10	0.70	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.10	U	µg/kg dry	2.10	1.52	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.10	U	µg/kg dry	2.10	0.57	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.10	U	µg/kg dry	2.10	1.13	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.10	U	µg/kg dry	2.10	1.58	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.10	U	µg/kg dry	2.10	0.51	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.10	U	µg/kg dry	2.10	0.36	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.10	U	µg/kg dry	2.10	0.71	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 4.21	U	µg/kg dry	4.21	0.38	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 2.10	U	µg/kg dry	2.10	0.59	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.21	U	µg/kg dry	4.21	3.31	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 2.10	U	µg/kg dry	2.10	1.91	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.10	U	µg/kg dry	2.10	0.70	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.10	U	µg/kg dry	2.10	1.13	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.10	U	µg/kg dry	2.10	0.39	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 21.0	U	µg/kg dry	21.0	13.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 42.1	U	µg/kg dry	42.1	36.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 10.5	U	µg/kg dry	10.5	4.80	1	"	"	"	"	"	X
64-17-5	Ethanol	< 421	U	µg/kg dry	421	78.5	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*129*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-4 SC39977-04	4884S-13	Soil	28-Sep-17 08:40	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 17.02 g						
	Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
General Chemistry Parameters													
	% Solids	91.1		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 12.27 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.69	U	µg/kg dry	2.69	1.36	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	**12.2**	J	µg/kg dry	26.9	10.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.69	U	µg/kg dry	2.69	2.58	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.69	U	µg/kg dry	2.69	0.71	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.69	U	µg/kg dry	2.69	0.72	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.69	U	µg/kg dry	2.69	1.36	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.69	U	µg/kg dry	2.69	1.79	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.69	U	µg/kg dry	2.69	2.56	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 5.38	U	µg/kg dry	5.38	2.43	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 5.38	U	µg/kg dry	5.38	4.81	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.69	U	µg/kg dry	2.69	0.77	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.69	U	µg/kg dry	2.69	0.49	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 2.69	U	µg/kg dry	2.69	0.60	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 5.38	U	µg/kg dry	5.38	1.72	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.69	U	µg/kg dry	2.69	2.20	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.69	U	µg/kg dry	2.69	0.84	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.38	U	µg/kg dry	5.38	1.49	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.69	U	µg/kg dry	2.69	1.44	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.38	U	µg/kg dry	5.38	1.11	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.69	U	µg/kg dry	2.69	0.67	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.69	U	µg/kg dry	2.69	0.63	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 5.38	U	µg/kg dry	5.38	3.88	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.69	U	µg/kg dry	2.69	1.82	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.69	U	µg/kg dry	2.69	1.80	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.69	U	µg/kg dry	2.69	1.40	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.69	U	µg/kg dry	2.69	0.70	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.69	U	µg/kg dry	2.69	0.58	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.69	U	µg/kg dry	2.69	0.80	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 5.38	U	µg/kg dry	5.38	1.02	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.69	U	µg/kg dry	2.69	0.70	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.69	U	µg/kg dry	2.69	0.96	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.69	U	µg/kg dry	2.69	1.41	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.69	U	µg/kg dry	2.69	1.00	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2.69	U	µg/kg dry	2.69	1.42	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.69	U	µg/kg dry	2.69	1.41	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.69	U	µg/kg dry	2.69	1.39	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.69	U	µg/kg dry	2.69	1.27	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.69	U	µg/kg dry	2.69	0.87	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.69	U	µg/kg dry	2.69	1.62	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.69	U	µg/kg dry	2.69	1.41	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-5	4884S-13	Soil	28-Sep-17 08:50	02-Oct-17
SC39977-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 12.27 g							
100-41-4	Ethylbenzene	< 2.69	U	µg/kg dry	2.69	0.39	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 2.69	U	µg/kg dry	2.69	1.35	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 5.38	U	µg/kg dry	5.38	3.30	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.69	U	µg/kg dry	2.69	0.53	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.69	U	µg/kg dry	2.69	0.58	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.69	U	µg/kg dry	2.69	0.99	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.38	U	µg/kg dry	5.38	1.38	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 5.38	U	µg/kg dry	5.38	1.07	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.69	U	µg/kg dry	2.69	1.60	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.69	U	µg/kg dry	2.69	0.44	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.69	U	µg/kg dry	2.69	0.54	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.69	U	µg/kg dry	2.69	2.28	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.69	U	µg/kg dry	2.69	2.27	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.69	U	µg/kg dry	2.69	0.92	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.69	U	µg/kg dry	2.69	0.87	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 2.69	U	µg/kg dry	2.69	0.94	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.69	U	µg/kg dry	2.69	1.98	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 2.69	U	µg/kg dry	2.69	0.84	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 2.69	U	µg/kg dry	2.69	0.89	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.69	U	µg/kg dry	2.69	1.95	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.69	U	µg/kg dry	2.69	0.73	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.69	U	µg/kg dry	2.69	1.45	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.69	U	µg/kg dry	2.69	2.02	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.69	U	µg/kg dry	2.69	0.65	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.69	U	µg/kg dry	2.69	0.46	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.69	U	µg/kg dry	2.69	0.91	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 5.38	U	µg/kg dry	5.38	0.48	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 2.69	U	µg/kg dry	2.69	0.75	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.38	U	µg/kg dry	5.38	4.24	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 2.69	U	µg/kg dry	2.69	2.44	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.69	U	µg/kg dry	2.69	0.90	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.69	U	µg/kg dry	2.69	1.45	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.69	U	µg/kg dry	2.69	0.50	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 26.9	U	µg/kg dry	26.9	17.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 53.8	U	µg/kg dry	53.8	46.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 13.4	U	µg/kg dry	13.4	6.13	1	"	"	"	"	"	X
64-17-5	Ethanol	< 538	U	µg/kg dry	538	100	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*144*	SGCMS VOC		*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*			*70-130 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-5 SC39977-05	4884S-13	Soil	28-Sep-17 08:50	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS							Initial weight: 12.27 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
General Chemistry Parameters													
	% Solids	**91.5**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404595-SW80													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
64-17-5	Ethanol	< 5.4		mg/kg	5.4	5.4	1	SW8015D MOD	06-Oct-17	06-Oct-17 21:19	11301	404595A	
78-83-1	Isobutyl alcohol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
67-56-1	Methanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
71-23-8	Propanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
Surrogate recoveries:													
6032-29-7	*% 2-Pentanol(surr)*	*103*			*- %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**92**		%			1	SW846-%Solid	28-Sep-17 08:50	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-6 SC39977-06	4884S-13	Soil	28-Sep-17 09:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 10.65 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.00	U	µg/kg dry	3.00	1.52	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	**70.1**		µg/kg dry	30.0	12.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.00	U	µg/kg dry	3.00	2.88	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.00	U	µg/kg dry	3.00	0.80	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.00	U	µg/kg dry	3.00	0.80	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.00	U	µg/kg dry	3.00	1.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.00	U	µg/kg dry	3.00	2.00	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.00	U	µg/kg dry	3.00	2.86	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 6.00	U	µg/kg dry	6.00	2.71	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 6.00	U	µg/kg dry	6.00	5.36	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.00	U	µg/kg dry	3.00	0.86	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.00	U	µg/kg dry	3.00	0.55	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.00	U	µg/kg dry	3.00	0.67	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 6.00	U	µg/kg dry	6.00	1.92	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.00	U	µg/kg dry	3.00	2.45	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.00	U	µg/kg dry	3.00	0.94	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 6.00	U	µg/kg dry	6.00	1.67	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.00	U	µg/kg dry	3.00	1.61	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 6.00	U	µg/kg dry	6.00	1.24	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.00	U	µg/kg dry	3.00	0.75	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.00	U	µg/kg dry	3.00	0.71	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 6.00	U	µg/kg dry	6.00	4.34	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.00	U	µg/kg dry	3.00	2.03	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.00	U	µg/kg dry	3.00	2.01	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.00	U	µg/kg dry	3.00	1.56	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.00	U	µg/kg dry	3.00	0.78	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.00	U	µg/kg dry	3.00	0.65	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.00	U	µg/kg dry	3.00	0.89	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 6.00	U	µg/kg dry	6.00	1.14	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.00	U	µg/kg dry	3.00	0.79	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.00	U	µg/kg dry	3.00	1.07	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.00	U	µg/kg dry	3.00	1.57	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.00	U	µg/kg dry	3.00	1.11	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.00	U	µg/kg dry	3.00	1.59	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.00	U	µg/kg dry	3.00	1.57	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.00	U	µg/kg dry	3.00	1.55	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.00	U	µg/kg dry	3.00	1.42	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.00	U	µg/kg dry	3.00	0.97	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.00	U	µg/kg dry	3.00	1.81	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.00	U	µg/kg dry	3.00	1.58	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-6	4884S-13	Soil	28-Sep-17 09:00	02-Oct-17
SC39977-06				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 10.65 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 3.00	U	µg/kg dry	3.00	0.43	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 3.00	U	µg/kg dry	3.00	1.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 6.00	U	µg/kg dry	6.00	3.68	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.00	U	µg/kg dry	3.00	0.59	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.00	U	µg/kg dry	3.00	0.65	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.00	U	µg/kg dry	3.00	1.10	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 6.00	U	µg/kg dry	6.00	1.54	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 6.00	U	µg/kg dry	6.00	1.19	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.00	U	µg/kg dry	3.00	1.79	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.00	U	µg/kg dry	3.00	0.49	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.00	U	µg/kg dry	3.00	0.60	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.00	U	µg/kg dry	3.00	2.55	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.00	U	µg/kg dry	3.00	2.54	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.00	U	µg/kg dry	3.00	1.03	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.00	U	µg/kg dry	3.00	0.97	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.00	U	µg/kg dry	3.00	1.05	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.00	U	µg/kg dry	3.00	2.21	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.00	U	µg/kg dry	3.00	0.94	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 3.00	U	µg/kg dry	3.00	1.00	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.00	U	µg/kg dry	3.00	2.18	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.00	U	µg/kg dry	3.00	0.82	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.00	U	µg/kg dry	3.00	1.62	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.00	U	µg/kg dry	3.00	2.25	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.00	U	µg/kg dry	3.00	0.73	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.00	U	µg/kg dry	3.00	0.52	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.00	U	µg/kg dry	3.00	1.01	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 6.00	U	µg/kg dry	6.00	0.54	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.00	U	µg/kg dry	3.00	0.84	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 6.00	U	µg/kg dry	6.00	4.73	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 3.00	U	µg/kg dry	3.00	2.72	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.00	U	µg/kg dry	3.00	1.00	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 3.00	U	µg/kg dry	3.00	1.62	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 3.00	U	µg/kg dry	3.00	0.56	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 30.0	U	µg/kg dry	30.0	19.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 60.0	U	µg/kg dry	60.0	52.1	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 15.0	U	µg/kg dry	15.0	6.85	1	"	"	"	"	"	X
64-17-5	Ethanol	< 600	U	µg/kg dry	600	112	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*95*		*70-130 %*				"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*		*70-130 %*				"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*130*		*70-130 %*				"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*107*		*70-130 %*				"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-6 SC39977-06	4884S-13	Soil	28-Sep-17 09:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
							Initial weight: 10.65 g						
	Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
General Chemistry Parameters													
	% Solids	91.8		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404595-SW80													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
64-17-5	Ethanol	< 5.4		mg/kg	5.4	5.4	1	SW8015D MOD	06-Oct-17	06-Oct-17 22:02	11301	404595A	
78-83-1	Isobutyl alcohol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
67-56-1	Methanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
71-23-8	Propanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.4		mg/kg	5.4	5.4	1	"	"	"	"	"	
Surrogate recoveries:													
6032-29-7	*% 2-Pentanol(surr)*	*80*			*- %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	93		%			1	SW846-%Solid	28-Sep-17 09:00	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-7 SC39977-07	4884S-13	Soil	28-Sep-17 09:40	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 14.59 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.84	U	µg/kg dry	2.84	1.44	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
67-64-1	Acetone	**755**	E	µg/kg dry	28.4	11.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.84	U	µg/kg dry	2.84	2.73	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.84	U	µg/kg dry	2.84	0.75	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.84	U	µg/kg dry	2.84	0.76	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.84	U	µg/kg dry	2.84	1.44	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.84	U	µg/kg dry	2.84	1.90	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.84	U	µg/kg dry	2.84	2.71	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 5.69	U	µg/kg dry	5.69	2.57	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 5.69	U	µg/kg dry	5.69	5.08	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.84	U	µg/kg dry	2.84	0.81	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.84	U	µg/kg dry	2.84	0.52	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 2.84	U	µg/kg dry	2.84	0.64	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 5.69	U	µg/kg dry	5.69	1.82	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.84	U	µg/kg dry	2.84	2.33	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.84	U	µg/kg dry	2.84	0.89	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 5.69	U	µg/kg dry	5.69	1.58	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.84	U	µg/kg dry	2.84	1.53	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 5.69	U	µg/kg dry	5.69	1.17	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.84	U	µg/kg dry	2.84	0.71	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.84	U	µg/kg dry	2.84	0.67	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 5.69	U	µg/kg dry	5.69	4.11	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.84	U	µg/kg dry	2.84	1.93	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.84	U	µg/kg dry	2.84	1.91	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.84	U	µg/kg dry	2.84	1.48	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.84	U	µg/kg dry	2.84	0.74	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.84	U	µg/kg dry	2.84	0.62	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.84	U	µg/kg dry	2.84	0.84	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 5.69	U	µg/kg dry	5.69	1.08	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.84	U	µg/kg dry	2.84	0.75	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.84	U	µg/kg dry	2.84	1.02	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.84	U	µg/kg dry	2.84	1.49	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.84	U	µg/kg dry	2.84	1.06	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2.84	U	µg/kg dry	2.84	1.51	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.84	U	µg/kg dry	2.84	1.49	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.84	U	µg/kg dry	2.84	1.47	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.84	U	µg/kg dry	2.84	1.34	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.84	U	µg/kg dry	2.84	0.92	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.84	U	µg/kg dry	2.84	1.71	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.84	U	µg/kg dry	2.84	1.49	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-7	4884S-13	Soil	28-Sep-17 09:40	02-Oct-17
SC39977-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 14.59 g							
100-41-4	Ethylbenzene	< 2.84	U	µg/kg dry	2.84	0.41	1	SW846 8260C	09-Oct-17	09-Oct-17	MP	1717131	X
87-68-3	Hexachlorobutadiene	< 2.84	U	µg/kg dry	2.84	1.43	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 5.69	U	µg/kg dry	5.69	3.49	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.84	U	µg/kg dry	2.84	0.56	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.84	U	µg/kg dry	2.84	0.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.84	U	µg/kg dry	2.84	1.05	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.69	U	µg/kg dry	5.69	1.46	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 5.69	U	µg/kg dry	5.69	1.13	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.84	U	µg/kg dry	2.84	1.69	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.84	U	µg/kg dry	2.84	0.46	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.84	U	µg/kg dry	2.84	0.57	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.84	U	µg/kg dry	2.84	2.42	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.84	U	µg/kg dry	2.84	2.41	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.84	U	µg/kg dry	2.84	0.97	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.84	U	µg/kg dry	2.84	0.92	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 2.84	U	µg/kg dry	2.84	1.00	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.84	U	µg/kg dry	2.84	2.10	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 2.84	U	µg/kg dry	2.84	0.89	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 2.84	U	µg/kg dry	2.84	0.94	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.84	U	µg/kg dry	2.84	2.06	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.84	U	µg/kg dry	2.84	0.78	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.84	U	µg/kg dry	2.84	1.53	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.84	U	µg/kg dry	2.84	2.13	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.84	U	µg/kg dry	2.84	0.69	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.84	U	µg/kg dry	2.84	0.49	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.84	U	µg/kg dry	2.84	0.96	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 5.69	U	µg/kg dry	5.69	0.51	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 2.84	U	µg/kg dry	2.84	0.80	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 5.69	U	µg/kg dry	5.69	4.48	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 2.84	U	µg/kg dry	2.84	2.58	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.84	U	µg/kg dry	2.84	0.95	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.84	U	µg/kg dry	2.84	1.53	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.84	U	µg/kg dry	2.84	0.53	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 28.4	U	µg/kg dry	28.4	18.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 56.9	U	µg/kg dry	56.9	49.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 14.2	U	µg/kg dry	14.2	6.49	1	"	"	"	"	"	X
64-17-5	Ethanol	< 569	U	µg/kg dry	569	106	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*84*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*98*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*130*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*110*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-7	4884S-13	Soil	28-Sep-17 09:40	02-Oct-17
SC39977-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (high level)							Initial weight: 19.97 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 52.3	U, D	µg/kg dry	52.3	26.5	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
67-64-1	Acetone	< 523	U, D	µg/kg dry	523	209	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 52.3	U, D	µg/kg dry	52.3	50.3	50	"	"	"	"	"	X
71-43-2	Benzene	< 52.3	U, D	µg/kg dry	52.3	13.9	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 52.3	U, D	µg/kg dry	52.3	14.0	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 52.3	U, D	µg/kg dry	52.3	26.4	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 52.3	U, D	µg/kg dry	52.3	34.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 52.3	U, D	µg/kg dry	52.3	49.9	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 105	U, D	µg/kg dry	105	47.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 105	U, D	µg/kg dry	105	93.5	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 52.3	U, D	µg/kg dry	52.3	15.0	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 52.3	U, D	µg/kg dry	52.3	9.52	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 52.3	U, D	µg/kg dry	52.3	11.7	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 105	U, D	µg/kg dry	105	33.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 52.3	U, D	µg/kg dry	52.3	42.8	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 52.3	U, D	µg/kg dry	52.3	16.4	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 105	U, D	µg/kg dry	105	29.0	50	"	"	"	"	"	X
67-66-3	Chloroform	< 52.3	U, D	µg/kg dry	52.3	28.1	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 105	U, D	µg/kg dry	105	21.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 52.3	U, D	µg/kg dry	52.3	13.0	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 52.3	U, D	µg/kg dry	52.3	12.3	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 105	U, D	µg/kg dry	105	75.6	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 52.3	U, D	µg/kg dry	52.3	35.5	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 52.3	U, D	µg/kg dry	52.3	35.1	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 52.3	U, D	µg/kg dry	52.3	27.2	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	13.6	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	11.3	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	15.5	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 105	U, D	µg/kg dry	105	19.8	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 52.3	U, D	µg/kg dry	52.3	13.7	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 52.3	U, D	µg/kg dry	52.3	18.7	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 52.3	U, D	µg/kg dry	52.3	27.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 52.3	U, D	µg/kg dry	52.3	19.4	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 52.3	U, D	µg/kg dry	52.3	27.7	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 52.3	U, D	µg/kg dry	52.3	27.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 52.3	U, D	µg/kg dry	52.3	27.1	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 52.3	U, D	µg/kg dry	52.3	24.7	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 52.3	U, D	µg/kg dry	52.3	16.8	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 52.3	U, D	µg/kg dry	52.3	31.5	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 52.3	U, D	µg/kg dry	52.3	27.5	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 52.3	U, D	µg/kg dry	52.3	7.53	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 52.3	U, D	µg/kg dry	52.3	26.3	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-7 SC39977-07	4884S-13	Soil	28-Sep-17 09:40	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260							Initial weight: 19.97 g						
591-78-6	2-Hexanone (MBK)	< 105	U, D	µg/kg dry	105	64.2	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
98-82-8	Isopropylbenzene	< 52.3	U, D	µg/kg dry	52.3	10.3	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 52.3	U, D	µg/kg dry	52.3	11.2	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 52.3	U, D	µg/kg dry	52.3	19.2	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 105	U, D	µg/kg dry	105	26.9	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 105	U, D	µg/kg dry	105	20.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 52.3	U, D	µg/kg dry	52.3	31.1	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 52.3	U, D	µg/kg dry	52.3	8.47	50	"	"	"	"	"	X
100-42-5	Styrene	< 52.3	U, D	µg/kg dry	52.3	10.5	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 52.3	U, D	µg/kg dry	52.3	44.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 52.3	U, D	µg/kg dry	52.3	44.2	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 52.3	U, D	µg/kg dry	52.3	17.9	50	"	"	"	"	"	X
108-88-3	Toluene	**22.0**	J, D	µg/kg dry	52.3	16.9	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	18.4	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	38.5	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 52.3	U, D	µg/kg dry	52.3	16.4	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 52.3	U, D	µg/kg dry	52.3	17.4	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 52.3	U, D	µg/kg dry	52.3	37.9	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 52.3	U, D	µg/kg dry	52.3	14.3	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 52.3	U, D	µg/kg dry	52.3	28.2	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 52.3	U, D	µg/kg dry	52.3	39.2	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 52.3	U, D	µg/kg dry	52.3	12.7	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 52.3	U, D	µg/kg dry	52.3	8.99	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 52.3	U, D	µg/kg dry	52.3	17.7	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 105	U, D	µg/kg dry	105	9.41	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 52.3	U, D	µg/kg dry	52.3	14.6	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 105	U, D	µg/kg dry	105	82.4	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 52.3	U, D	µg/kg dry	52.3	47.4	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 52.3	U, D	µg/kg dry	52.3	17.5	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 52.3	U, D	µg/kg dry	52.3	28.2	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 52.3	U, D	µg/kg dry	52.3	9.73	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 523	U, D	µg/kg dry	523	342	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1050	U, D	µg/kg dry	1050	908	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 261	U, D	µg/kg dry	261	119	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10500	U, D	µg/kg dry	10500	1950	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)							Initial weight: 14.59 g						

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-7 SC39977-07	4884S-13	Soil	28-Sep-17 09:40	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)							Initial weight: 14.59 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8260C TICs	09-Oct-17	09-Oct-17	MP	1717131	
Re-analysis of Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)							Initial weight: 19.97 g						
	Tentatively Identified Compounds	**None found**		µg/kg dry			50	SW846 8260C TICs	11-Oct-17	11-Oct-17	MP	1717290	
General Chemistry Parameters													
	% Solids	**85.6**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404595-SW80													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
64-17-5	Ethanol	< 5.8		mg/kg	5.8	5.8	1	SW8015D MOD	06-Oct-17	06-Oct-17 22:45	11301	404595A	
78-83-1	Isobutyl alcohol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
67-56-1	Methanol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
71-23-8	Propanol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.8		mg/kg	5.8	5.8	1	"	"	"	"	"	
Surrogate recoveries:													
6032-29-7	*% 2-Pentanol(surr)*	*93*			*- %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**86**		%			1	SW846-%Solid	28-Sep-17 09:40	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-8 SC39977-08	4884S-13	Soil	28-Sep-17 13:53	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260			R05										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 25.37 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 35.1	U, D	µg/kg dry	35.1	17.8	50	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
67-64-1	Acetone	< 351	U, D	µg/kg dry	351	140	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 35.1	U, D	µg/kg dry	35.1	33.7	50	"	"	"	"	"	X
71-43-2	Benzene	< 35.1	U, D	µg/kg dry	35.1	9.31	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 35.1	U, D	µg/kg dry	35.1	9.38	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 35.1	U, D	µg/kg dry	35.1	17.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 35.1	U, D	µg/kg dry	35.1	23.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 35.1	U, D	µg/kg dry	35.1	33.5	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 70.2	U, D	µg/kg dry	70.2	31.7	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 70.2	U, D	µg/kg dry	70.2	62.8	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 35.1	U, D	µg/kg dry	35.1	10.0	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	**12.3**	J, D	µg/kg dry	35.1	6.39	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**41.4**	D	µg/kg dry	35.1	7.87	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 70.2	U, D	µg/kg dry	70.2	22.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 35.1	U, D	µg/kg dry	35.1	28.7	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 35.1	U, D	µg/kg dry	35.1	11.0	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 70.2	U, D	µg/kg dry	70.2	19.5	50	"	"	"	"	"	X
67-66-3	Chloroform	< 35.1	U, D	µg/kg dry	35.1	18.9	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 70.2	U, D	µg/kg dry	70.2	14.5	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 35.1	U, D	µg/kg dry	35.1	8.74	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 35.1	U, D	µg/kg dry	35.1	8.25	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 70.2	U, D	µg/kg dry	70.2	50.7	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 35.1	U, D	µg/kg dry	35.1	23.8	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 35.1	U, D	µg/kg dry	35.1	23.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 35.1	U, D	µg/kg dry	35.1	18.3	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	9.13	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	7.62	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	10.4	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 70.2	U, D	µg/kg dry	70.2	13.3	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 35.1	U, D	µg/kg dry	35.1	9.20	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 35.1	U, D	µg/kg dry	35.1	12.6	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 35.1	U, D	µg/kg dry	35.1	18.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 35.1	U, D	µg/kg dry	35.1	13.0	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 35.1	U, D	µg/kg dry	35.1	18.6	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 35.1	U, D	µg/kg dry	35.1	18.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 35.1	U, D	µg/kg dry	35.1	18.2	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 35.1	U, D	µg/kg dry	35.1	16.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 35.1	U, D	µg/kg dry	35.1	11.3	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 35.1	U, D	µg/kg dry	35.1	21.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 35.1	U, D	µg/kg dry	35.1	18.4	50	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			R05										
						Initial weight: 25.37 g							
100-41-4	Ethylbenzene	< 35.1	U, D	µg/kg dry	35.1	5.06	50	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717338	X
87-68-3	Hexachlorobutadiene	< 35.1	U, D	µg/kg dry	35.1	17.6	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 70.2	U, D	µg/kg dry	70.2	43.1	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 35.1	U, D	µg/kg dry	35.1	6.92	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 35.1	U, D	µg/kg dry	35.1	7.55	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 35.1	U, D	µg/kg dry	35.1	12.9	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 70.2	U, D	µg/kg dry	70.2	18.0	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 70.2	U, D	µg/kg dry	70.2	13.9	50	"	"	"	"	"	X
91-20-3	Naphthalene	**27.7**	J, D	µg/kg dry	35.1	20.9	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	**8.08**	J, D	µg/kg dry	35.1	5.69	50	"	"	"	"	"	X
100-42-5	Styrene	< 35.1	U, D	µg/kg dry	35.1	7.06	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 35.1	U, D	µg/kg dry	35.1	29.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 35.1	U, D	µg/kg dry	35.1	29.7	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 35.1	U, D	µg/kg dry	35.1	12.0	50	"	"	"	"	"	X
108-88-3	Toluene	< 35.1	U, D	µg/kg dry	35.1	11.4	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	12.3	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	25.9	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 35.1	U, D	µg/kg dry	35.1	11.0	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 35.1	U, D	µg/kg dry	35.1	11.7	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 35.1	U, D	µg/kg dry	35.1	25.5	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 35.1	U, D	µg/kg dry	35.1	9.59	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 35.1	U, D	µg/kg dry	35.1	18.9	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 35.1	U, D	µg/kg dry	35.1	26.3	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 35.1	U, D	µg/kg dry	35.1	8.53	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 35.1	U, D	µg/kg dry	35.1	6.04	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 35.1	U, D	µg/kg dry	35.1	11.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 70.2	U, D	µg/kg dry	70.2	6.32	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 35.1	U, D	µg/kg dry	35.1	9.83	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 70.2	U, D	µg/kg dry	70.2	55.3	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 35.1	U, D	µg/kg dry	35.1	31.8	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 35.1	U, D	µg/kg dry	35.1	11.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 35.1	U, D	µg/kg dry	35.1	18.9	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 35.1	U, D	µg/kg dry	35.1	6.53	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 351	U, D	µg/kg dry	351	230	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 702	U, D	µg/kg dry	702	610	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 176	U, D	µg/kg dry	176	80.1	50	"	"	"	"	"	X
64-17-5	Ethanol	**3,710**	J, D	µg/kg dry	7020	1310	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*105*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*95*			*70-130 %*			"	"	"	"	"	

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
							Initial weight: 25.37 g						
055669-88-0	Benzene, 1,4-dimethyl-2-(2-...	**440**	J N, D	µg/kg dry			50	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717338	
002958-76-1	Naphthalene, decahydro-2-me...	**920**	J N, D	µg/kg dry			50	"	"	"	"	"	
1000152-47-3	trans-Decalin, 2-methyl-	**620**	J N, D	µg/kg dry			50	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 70.7	U	µg/kg dry	70.7	35.2	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
208-96-8	Acenaphthylene	< 70.7	U	µg/kg dry	70.7	34.9	1	"	"	"	"	"	X
62-53-3	Aniline	< 350	U	µg/kg dry	350	25.1	1	"	"	"	"	"	X
120-12-7	Anthracene	< 70.7	U	µg/kg dry	70.7	33.8	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 350	U	µg/kg dry	350	34.4	1	"	"	"	"	"	
92-87-5	Benzidine	< 350	U	µg/kg dry	350	70.4	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 70.7	U	µg/kg dry	70.7	37.3	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 70.7	U	µg/kg dry	70.7	26.3	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 70.7	U	µg/kg dry	70.7	34.2	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 70.7	U	µg/kg dry	70.7	28.4	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 70.7	U	µg/kg dry	70.7	27.7	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 350	U	µg/kg dry	350	73.4	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 350	U	µg/kg dry	350	28.6	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 350	U	µg/kg dry	350	31.1	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 177	U	µg/kg dry	177	25.4	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 177	U	µg/kg dry	177	27.2	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 177	U	µg/kg dry	177	43.7	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 350	U	µg/kg dry	350	32.8	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 350	U	µg/kg dry	350	40.8	1	"	"	"	"	"	X
86-74-8	Carbazole	< 177	U	µg/kg dry	177	98.7	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 350	U	µg/kg dry	350	33.4	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 177	U	µg/kg dry	177	38.3	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 350	U	µg/kg dry	350	32.3	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 177	U	µg/kg dry	177	31.5	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 350	U	µg/kg dry	350	41.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 70.7	U	µg/kg dry	70.7	35.3	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 70.7	U	µg/kg dry	70.7	27.1	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 177	U	µg/kg dry	177	26.9	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 350	U	µg/kg dry	350	30.5	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 350	U	µg/kg dry	350	30.5	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 350	U	µg/kg dry	350	32.4	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 350	U	µg/kg dry	350	53.2	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 177	U	µg/kg dry	177	33.1	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 350	U	µg/kg dry	350	43.2	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-8	4884S-13	Soil	28-Sep-17 13:53	02-Oct-17
SC39977-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
131-11-3	Dimethyl phthalate	< 350	U	µg/kg dry	350	38.3	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
105-67-9	2,4-Dimethylphenol	< 350	U	µg/kg dry	350	25.0	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 350	U	µg/kg dry	350	37.1	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 350	U	µg/kg dry	350	44.9	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 350	U	µg/kg dry	350	35.6	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 177	U	µg/kg dry	177	68.5	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 177	U	µg/kg dry	177	39.9	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 350	U	µg/kg dry	350	39.5	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 70.7	U	µg/kg dry	70.7	37.4	1	"	"	"	"	"	X
86-73-7	Fluorene	< 70.7	U	µg/kg dry	70.7	35.9	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 177	U	µg/kg dry	177	34.8	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 177	U	µg/kg dry	177	42.3	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 177	U	µg/kg dry	177	24.1	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 177	U	µg/kg dry	177	38.2	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 70.7	U	µg/kg dry	70.7	25.4	1	"	"	"	"	"	X
78-59-1	Isophorone	< 177	U	µg/kg dry	177	33.2	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 70.7	U	µg/kg dry	70.7	42.7	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 350	U	µg/kg dry	350	29.7	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 350	U	µg/kg dry	350	33.8	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 70.7	U	µg/kg dry	70.7	33.0	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 350	U	µg/kg dry	350	29.7	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 350	U	µg/kg dry	350	47.8	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 177	U	µg/kg dry	177	54.5	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 177	U	µg/kg dry	177	32.2	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 177	U	µg/kg dry	177	29.4	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1400	U	µg/kg dry	1400	56.5	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 177	U	µg/kg dry	177	32.9	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 177	U	µg/kg dry	177	34.5	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 350	U	µg/kg dry	350	37.9	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 350	U	µg/kg dry	350	37.4	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 70.7	U	µg/kg dry	70.7	32.9	1	"	"	"	"	"	X
108-95-2	Phenol	< 350	U	µg/kg dry	350	23.0	1	"	"	"	"	"	X
129-00-0	Pyrene	< 70.7	U	µg/kg dry	70.7	39.4	1	"	"	"	"	"	X
110-86-1	Pyridine	< 350	U	µg/kg dry	350	52.1	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 350	U	µg/kg dry	350	34.7	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 70.7	U	µg/kg dry	70.7	34.8	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 350	U	µg/kg dry	350	31.5	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 177	U	µg/kg dry	177	31.6	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 350	U	µg/kg dry	350	55.2	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 350	U	µg/kg dry	350	33.9	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*75*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*75*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-8 SC39977-08	4884S-13	Soil	28-Sep-17 13:53	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
4165-60-0	*Nitrobenzene-d5*	*83*			*30-130 %*			SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	
4165-62-2	*Phenol-d5*	*85*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*114*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*114*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds													
871-83-0	Nonane, 2-methyl-	**430**	J N	µg/kg dry			1	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 209	U, D	µg/kg dry	209	93.8	10	SW846 8082A	10-Oct-17	12-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 209	U, D	µg/kg dry	209	111	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 209	U, D	µg/kg dry	209	105	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 209	U, D	µg/kg dry	209	207	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 209	U, D	µg/kg dry	209	191	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 209	U, D	µg/kg dry	209	137	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 209	U, D	µg/kg dry	209	112	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 209	U, D	µg/kg dry	209	183	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 209	U, D	µg/kg dry	209	94.5	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.50	U	mg/kg dry	1.50	0.162	1	SW846 6010C	10-Oct-17	11-Oct-17	EDT	1717184	X
7429-90-5	Aluminum	**4,120**		mg/kg dry	4.99	1.13	1	"	"	13-Oct-17	"	1717431	X
7440-38-2	Arsenic	**3.60**		mg/kg dry	1.50	0.189	1	"	"	11-Oct-17	"	1717184	X
7440-39-3	Barium	**20.4**		mg/kg dry	0.997	0.118	1	"	"	13-Oct-17	"	1717431	X
7440-41-7	Beryllium	**0.147**	J	mg/kg dry	0.499	0.0250	1	"	"	11-Oct-17	"	1717184	X
7440-70-2	Calcium	**58,900**	GS1, D	mg/kg dry	249	51.1	10	"	"	13-Oct-17	"	1717431	X
7440-43-9	Cadmium	< 0.499	U	mg/kg dry	0.499	0.0258	1	"	"	11-Oct-17	"	1717184	X
7440-48-4	Cobalt	**4.04**		mg/kg dry	0.997	0.0577	1	"	"	"	"	"	X
7440-47-3	Chromium	**4.20**		mg/kg dry	0.997	0.133	1	"	"	13-Oct-17	"	1717431	X
7440-50-8	Copper	**13.9**		mg/kg dry	0.997	0.239	1	"	"	11-Oct-17	"	1717184	X
7439-89-6	Iron	**7,490**		mg/kg dry	3.99	2.05	1	"	"	13-Oct-17	"	1717431	X
7439-97-6	Mercury	< 0.0315	U	mg/kg dry	0.0315	0.0088	1	SW846 7471B	11-Oct-17	12-Oct-17	LNB	1717185	X
Prepared by method SW846 3050B													
7440-09-7	Potassium	**703**		mg/kg dry	49.9	3.48	1	SW846 6010C	10-Oct-17	13-Oct-17	CAW	1717431	X
7439-95-4	Magnesium	**2,550**		mg/kg dry	4.99	1.44	1	"	"	"	"	"	X
7439-96-5	Manganese	**1,550**	GS1, D	mg/kg dry	9.97	2.54	10	"	"	13-Oct-17	"	"	X
7440-23-5	Sodium	**67.3**		mg/kg dry	24.9	10.7	1	"	"	13-Oct-17	"	"	X
7440-02-0	Nickel	**8.95**		mg/kg dry	0.997	0.115	1	"	"	11-Oct-17	"	1717184	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-8 SC39977-08	4884S-13	Soil	28-Sep-17 13:53	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-92-1	Lead	**4.39**		mg/kg dry	1.50	0.211	1	SW846 6010C	10-Oct-17	11-Oct-17	EDT	1717184	X
7440-36-0	Antimony	**0.379**	J	mg/kg dry	4.99	0.375	1	"	"	"	"	"	X
7782-49-2	Selenium	**0.803**	J	mg/kg dry	1.50	0.285	1	"	"	"	"	"	X
7440-28-0	Thallium	< 2.99	U	mg/kg dry	2.99	1.10	1	"	"	"	"	"	X
7440-62-2	Vanadium	**6.74**		mg/kg dry	1.50	0.265	1	"	"	"	"	"	X
7440-66-6	Zinc	**40.4**		mg/kg dry	0.997	0.772	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**93.5**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404391-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.1		ug/Kg	2.1	2.1	2	SW8081B	05-Oct-17	08-Oct-17 14:28	11301	404391A	
72-55-9	4,4' -DDE	< 2.1		ug/Kg	2.1	2.1	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.1		ug/Kg	2.1	2.1	2	"	"	"	"	"	
319-84-6	a-BHC	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
319-85-7	b-BHC	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
57-74-9	Chlordane	< 34		ug/Kg	34	34	2	"	"	"	"	"	
319-86-8	d-BHC	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
72-20-8	Endrin	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.4		ug/Kg	1.4	1.4	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
76-44-8	Heptachlor	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 6.9		ug/Kg	6.9	6.9	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 34		ug/Kg	34	34	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 140		ug/Kg	140	140	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*32*			*40-140 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*38*			*40-140 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**95**		%			1	SW846-%Solid	28-Sep-17 13:53	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	
Volatile Organic Compounds by SW846 8260			GS1										
Prepared by method SW846 5035A Soil (high level)							Initial weight: 30.1 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 31.4	U, D	µg/kg dry	31.4	15.9	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
67-64-1	Acetone	**198**	D	µg/kg dry	157	125	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 31.4	U, D	µg/kg dry	31.4	30.1	50	"	"	"	"	"	X
71-43-2	Benzene	< 31.4	U, D	µg/kg dry	31.4	8.31	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 31.4	U, D	µg/kg dry	31.4	8.37	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 31.4	U, D	µg/kg dry	31.4	15.8	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 31.4	U, D	µg/kg dry	31.4	20.9	50	"	"	"	"	"	X
75-25-2	Bromoform	< 31.4	U, D	µg/kg dry	31.4	29.9	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 62.7	U, D	µg/kg dry	62.7	28.3	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 62.7	U, D	µg/kg dry	62.7	56.1	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 31.4	U, D	µg/kg dry	31.4	8.97	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 31.4	U, D	µg/kg dry	31.4	5.71	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**7.84**	J, D	µg/kg dry	31.4	7.03	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	**215**	D	µg/kg dry	62.7	20.1	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 31.4	U, D	µg/kg dry	31.4	25.7	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 31.4	U, D	µg/kg dry	31.4	9.82	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 62.7	U, D	µg/kg dry	62.7	17.4	50	"	"	"	"	"	X
67-66-3	Chloroform	< 31.4	U, D	µg/kg dry	31.4	16.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 62.7	U, D	µg/kg dry	62.7	13.0	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 31.4	U, D	µg/kg dry	31.4	7.81	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 31.4	U, D	µg/kg dry	31.4	7.37	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 62.7	U, D	µg/kg dry	62.7	45.3	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 31.4	U, D	µg/kg dry	31.4	21.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 31.4	U, D	µg/kg dry	31.4	21.0	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 31.4	U, D	µg/kg dry	31.4	16.3	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	8.16	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	6.81	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	9.28	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 62.7	U, D	µg/kg dry	62.7	11.9	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 31.4	U, D	µg/kg dry	31.4	8.22	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 31.4	U, D	µg/kg dry	31.4	11.2	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 31.4	U, D	µg/kg dry	31.4	16.4	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 31.4	U, D	µg/kg dry	31.4	11.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 31.4	U, D	µg/kg dry	31.4	16.6	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 31.4	U, D	µg/kg dry	31.4	16.4	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 31.4	U, D	µg/kg dry	31.4	16.2	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 31.4	U, D	µg/kg dry	31.4	14.8	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 31.4	U, D	µg/kg dry	31.4	10.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 31.4	U, D	µg/kg dry	31.4	18.9	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 31.4	U, D	µg/kg dry	31.4	16.5	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			GS1										
							Initial weight: 30.1 g						
100-41-4	Ethylbenzene	< 31.4	U, D	µg/kg dry	31.4	4.52	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
87-68-3	Hexachlorobutadiene	< 31.4	U, D	µg/kg dry	31.4	15.7	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 62.7	U, D	µg/kg dry	62.7	38.5	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 31.4	U, D	µg/kg dry	31.4	6.18	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 31.4	U, D	µg/kg dry	31.4	6.74	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 31.4	U, D	µg/kg dry	31.4	11.5	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 62.7	U, D	µg/kg dry	62.7	16.1	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 62.7	U, D	µg/kg dry	62.7	12.5	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 31.4	U, D	µg/kg dry	31.4	18.7	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 31.4	U, D	µg/kg dry	31.4	5.08	50	"	"	"	"	"	X
100-42-5	Styrene	< 31.4	U, D	µg/kg dry	31.4	6.30	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 31.4	U, D	µg/kg dry	31.4	26.7	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 31.4	U, D	µg/kg dry	31.4	26.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 31.4	U, D	µg/kg dry	31.4	10.7	50	"	"	"	"	"	X
108-88-3	Toluene	< 31.4	U, D	µg/kg dry	31.4	10.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	11.0	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	23.1	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 31.4	U, D	µg/kg dry	31.4	9.85	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 31.4	U, D	µg/kg dry	31.4	10.4	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 31.4	U, D	µg/kg dry	31.4	22.7	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 31.4	U, D	µg/kg dry	31.4	8.56	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 31.4	U, D	µg/kg dry	31.4	16.9	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 31.4	U, D	µg/kg dry	31.4	23.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 31.4	U, D	µg/kg dry	31.4	7.62	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 31.4	U, D	µg/kg dry	31.4	5.40	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 31.4	U, D	µg/kg dry	31.4	10.6	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 62.7	U, D	µg/kg dry	62.7	5.65	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 31.4	U, D	µg/kg dry	31.4	8.78	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 62.7	U, D	µg/kg dry	62.7	49.4	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 31.4	U, D	µg/kg dry	31.4	28.4	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 31.4	U, D	µg/kg dry	31.4	10.5	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 31.4	U, D	µg/kg dry	31.4	16.9	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 31.4	U, D	µg/kg dry	31.4	5.83	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	**739**	D	µg/kg dry	314	205	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 627	U, D	µg/kg dry	627	545	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 157	U, D	µg/kg dry	157	71.6	50	"	"	"	"	"	X
64-17-5	Ethanol	< 6270	U, D	µg/kg dry	6270	1170	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*104*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*94*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 18.88 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.87	U	µg/kg dry	1.87	0.95	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
67-64-1	Acetone	**462**	E	µg/kg dry	18.7	7.47	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1.87	U	µg/kg dry	1.87	1.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.87	U	µg/kg dry	1.87	0.50	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.87	U	µg/kg dry	1.87	0.50	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.87	U	µg/kg dry	1.87	0.94	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.87	U	µg/kg dry	1.87	1.25	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.87	U	µg/kg dry	1.87	1.78	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 3.74	U	µg/kg dry	3.74	1.69	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.74	U	µg/kg dry	3.74	3.34	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.87	U	µg/kg dry	1.87	0.53	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.87	U	µg/kg dry	1.87	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**2.62**		µg/kg dry	1.87	0.42	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	**30.4**		µg/kg dry	3.74	1.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.87	U	µg/kg dry	1.87	1.53	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.87	U	µg/kg dry	1.87	0.58	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.74	U	µg/kg dry	3.74	1.04	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.87	U	µg/kg dry	1.87	1.00	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 3.74	U	µg/kg dry	3.74	0.77	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.87	U	µg/kg dry	1.87	0.47	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.87	U	µg/kg dry	1.87	0.44	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 3.74	U	µg/kg dry	3.74	2.70	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.87	U	µg/kg dry	1.87	1.27	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.87	U	µg/kg dry	1.87	1.25	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.87	U	µg/kg dry	1.87	0.97	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.87	U	µg/kg dry	1.87	0.49	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.87	U	µg/kg dry	1.87	0.41	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.87	U	µg/kg dry	1.87	0.55	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.74	U	µg/kg dry	3.74	0.71	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.87	U	µg/kg dry	1.87	0.49	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.87	U	µg/kg dry	1.87	0.67	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.87	U	µg/kg dry	1.87	0.98	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.87	U	µg/kg dry	1.87	0.69	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.87	U	µg/kg dry	1.87	0.99	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.87	U	µg/kg dry	1.87	0.98	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.87	U	µg/kg dry	1.87	0.97	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.87	U	µg/kg dry	1.87	0.88	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.87	U	µg/kg dry	1.87	0.60	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.87	U	µg/kg dry	1.87	1.13	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.87	U	µg/kg dry	1.87	0.98	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.87	U	µg/kg dry	1.87	0.27	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1.87	U	µg/kg dry	1.87	0.94	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
						Initial weight: 18.88 g							
591-78-6	2-Hexanone (MBK)	< 3.74	U	µg/kg dry	3.74	2.29	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
98-82-8	Isopropylbenzene	< 1.87	U	µg/kg dry	1.87	0.37	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.87	U	µg/kg dry	1.87	0.40	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.87	U	µg/kg dry	1.87	0.69	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 3.74	U	µg/kg dry	3.74	0.96	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.74	U	µg/kg dry	3.74	0.74	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.87	U	µg/kg dry	1.87	1.11	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.87	U	µg/kg dry	1.87	0.30	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.87	U	µg/kg dry	1.87	0.38	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.87	U	µg/kg dry	1.87	1.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1.87	U	µg/kg dry	1.87	1.58	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.87	U	µg/kg dry	1.87	0.64	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.87	U	µg/kg dry	1.87	0.61	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.87	U	µg/kg dry	1.87	0.66	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.87	U	µg/kg dry	1.87	1.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.87	U	µg/kg dry	1.87	0.59	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.87	U	µg/kg dry	1.87	0.62	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.87	U	µg/kg dry	1.87	1.35	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.87	U	µg/kg dry	1.87	0.51	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.87	U	µg/kg dry	1.87	1.01	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.87	U	µg/kg dry	1.87	1.40	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.87	U	µg/kg dry	1.87	0.45	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.87	U	µg/kg dry	1.87	0.32	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.87	U	µg/kg dry	1.87	0.63	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.74	U	µg/kg dry	3.74	0.34	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.87	U	µg/kg dry	1.87	0.52	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 3.74	U	µg/kg dry	3.74	2.94	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.87	U	µg/kg dry	1.87	1.69	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.87	U	µg/kg dry	1.87	0.62	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.87	U	µg/kg dry	1.87	1.01	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.87	U	µg/kg dry	1.87	0.35	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	**593**		µg/kg dry	18.7	12.2	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 37.4	U	µg/kg dry	37.4	32.5	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 9.34	U	µg/kg dry	9.34	4.26	1	"	"	"	"	"	X
64-17-5	Ethanol	< 374	U	µg/kg dry	374	69.7	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*86*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*89*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*122*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)													
						Initial weight: 30.1 g							

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)							Initial weight: 30.1 g						
	Tentatively Identified Compounds	None found		µg/kg dry			50	SW846 8260C TICs	11-Oct-17	11-Oct-17	MP	1717290	
Re-analysis of Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)							Initial weight: 18.88 g						
054676-39-0	Cyclohexane, 2-butyl-1,1,3-...	35	J N	µg/kg dry			1	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717335	
74645-98-0	Dodecane, 2,7,10-trimethyl-	21	J N	µg/kg dry			1	"	"	"	"	"	
002958-76-1	Naphthalene, decahydro-2-me...	28	J N	µg/kg dry			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 72.2	U	µg/kg dry	72.2	35.9	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
208-96-8	Acenaphthylene	< 72.2	U	µg/kg dry	72.2	35.6	1	"	"	"	"	"	X
62-53-3	Aniline	< 357	U	µg/kg dry	357	25.6	1	"	"	"	"	"	X
120-12-7	Anthracene	< 72.2	U	µg/kg dry	72.2	34.5	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 357	U	µg/kg dry	357	35.1	1	"	"	"	"	"	
92-87-5	Benzidine	< 357	U	µg/kg dry	357	71.8	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 72.2	U	µg/kg dry	72.2	38.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 72.2	U	µg/kg dry	72.2	26.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 72.2	U	µg/kg dry	72.2	34.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 72.2	U	µg/kg dry	72.2	29.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 72.2	U	µg/kg dry	72.2	28.2	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 357	U	µg/kg dry	357	75.0	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 357	U	µg/kg dry	357	29.2	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 357	U	µg/kg dry	357	31.7	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 181	U	µg/kg dry	181	25.9	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 181	U	µg/kg dry	181	27.8	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 181	U	µg/kg dry	181	44.6	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 357	U	µg/kg dry	357	33.4	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 357	U	µg/kg dry	357	41.6	1	"	"	"	"	"	X
86-74-8	Carbazole	< 181	U	µg/kg dry	181	101	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 357	U	µg/kg dry	357	34.1	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 181	U	µg/kg dry	181	39.1	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 357	U	µg/kg dry	357	33.0	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 181	U	µg/kg dry	181	32.1	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 357	U	µg/kg dry	357	42.4	1	"	"	"	"	"	X
218-01-9	Chrysene	< 72.2	U	µg/kg dry	72.2	36.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 72.2	U	µg/kg dry	72.2	27.7	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 181	U	µg/kg dry	181	27.5	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 357	U	µg/kg dry	357	31.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 357	U	µg/kg dry	357	31.2	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17
SC39977-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
106-46-7	1,4-Dichlorobenzene	< 357	U	µg/kg dry	357	33.1	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
91-94-1	3,3´-Dichlorobenzidine	< 357	U	µg/kg dry	357	54.3	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 181	U	µg/kg dry	181	33.8	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 357	U	µg/kg dry	357	44.1	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 357	U	µg/kg dry	357	39.1	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 357	U	µg/kg dry	357	25.5	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 357	U	µg/kg dry	357	37.9	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 357	U	µg/kg dry	357	45.8	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 357	U	µg/kg dry	357	36.3	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 181	U	µg/kg dry	181	69.9	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 181	U	µg/kg dry	181	40.7	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 357	U	µg/kg dry	357	40.3	1	"	"	"	"	"	X
206-44-0	Fluoranthene	**40.4**	J	µg/kg dry	72.2	38.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 72.2	U	µg/kg dry	72.2	36.7	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 181	U	µg/kg dry	181	35.6	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 181	U	µg/kg dry	181	43.2	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 181	U	µg/kg dry	181	24.6	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 181	U	µg/kg dry	181	38.9	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 72.2	U	µg/kg dry	72.2	26.0	1	"	"	"	"	"	X
78-59-1	Isophorone	< 181	U	µg/kg dry	181	33.9	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 72.2	U	µg/kg dry	72.2	43.6	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 357	U	µg/kg dry	357	30.3	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 357	U	µg/kg dry	357	34.5	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 72.2	U	µg/kg dry	72.2	33.6	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 357	U	µg/kg dry	357	30.3	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 357	U	µg/kg dry	357	48.8	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 181	U	µg/kg dry	181	55.6	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 181	U	µg/kg dry	181	32.9	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 181	U	µg/kg dry	181	30.0	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1430	U	µg/kg dry	1430	57.7	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 181	U	µg/kg dry	181	33.5	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 181	U	µg/kg dry	181	35.2	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 357	U	µg/kg dry	357	38.7	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 357	U	µg/kg dry	357	38.1	1	"	"	"	"	"	X
85-01-8	Phenanthrene	**65.6**	J	µg/kg dry	72.2	33.6	1	"	"	"	"	"	X
108-95-2	Phenol	< 357	U	µg/kg dry	357	23.5	1	"	"	"	"	"	X
129-00-0	Pyrene	< 72.2	U	µg/kg dry	72.2	40.2	1	"	"	"	"	"	X
110-86-1	Pyridine	< 357	U	µg/kg dry	357	53.2	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 357	U	µg/kg dry	357	35.4	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 72.2	U	µg/kg dry	72.2	35.5	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 357	U	µg/kg dry	357	32.1	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 181	U	µg/kg dry	181	32.2	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 357	U	µg/kg dry	357	56.4	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 357	U	µg/kg dry	357	34.6	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*78*			*30-130 %*			SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	
367-12-4	*2-Fluorophenol*	*76*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*71*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*77*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*95*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*94*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds													
000292-45-5	1,2,4,6-Tetrathiepane	**250**	J N	µg/kg dry			1	SW846 8270D TICS	"	"	MSL	"	
3891-98-3	Dodecane, 2,6,10-trimethyl-	**510**	J N	µg/kg dry			1	"	"	"	"	"	
54105-67-8	Heptadecane, 2,6-dimethyl-	**2,300**	J N	µg/kg dry			1	"	"	"	"	"	
005617-41-4	Heptylcyclohexane	**250**		µg/kg dry			1	"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 215	U, D	µg/kg dry	215	96.3	10	SW846 8082A	10-Oct-17	12-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 215	U, D	µg/kg dry	215	114	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 215	U, D	µg/kg dry	215	108	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 215	U, D	µg/kg dry	215	212	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 215	U, D	µg/kg dry	215	196	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 215	U, D	µg/kg dry	215	141	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 215	U, D	µg/kg dry	215	115	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 215	U, D	µg/kg dry	215	187	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 215	U, D	µg/kg dry	215	96.9	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.60	U	mg/kg dry	1.60	0.172	1	SW846 6010C	10-Oct-17	11-Oct-17	EDT	1717184	X
7429-90-5	Aluminum	**6,150**		mg/kg dry	5.32	1.21	1	"	"	13-Oct-17	"	1717431	X
7440-38-2	Arsenic	**3.69**		mg/kg dry	1.60	0.202	1	"	"	11-Oct-17	"	1717184	X
7440-39-3	Barium	**25.2**		mg/kg dry	1.06	0.126	1	"	"	13-Oct-17	"	1717431	X
7440-41-7	Beryllium	**0.248**	J	mg/kg dry	0.532	0.0267	1	"	"	11-Oct-17	"	1717184	X
7440-70-2	Calcium	**52,800**	GS1, D	mg/kg dry	133	27.3	5	"	"	13-Oct-17	"	1717431	X
7440-43-9	Cadmium	< 0.532	U	mg/kg dry	0.532	0.0276	1	"	"	11-Oct-17	"	1717184	X
7440-48-4	Cobalt	**4.15**		mg/kg dry	1.06	0.0616	1	"	"	"	"	"	X
7440-47-3	Chromium	**4.43**		mg/kg dry	1.06	0.142	1	"	"	13-Oct-17	"	1717431	X
7440-50-8	Copper	**14.1**		mg/kg dry	1.06	0.256	1	"	"	11-Oct-17	"	1717184	X
7439-89-6	Iron	**7,940**		mg/kg dry	4.26	2.19	1	"	"	13-Oct-17	"	1717431	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	< 0.0288	U	mg/kg dry	0.0288	0.0080	1	SW846 7471B	11-Oct-17	12-Oct-17	LNB	1717185	X
Prepared by method SW846 3050B													
7440-09-7	Potassium	**518**		mg/kg dry	53.2	3.71	1	SW846 6010C	10-Oct-17	13-Oct-17	CAW	1717431	X
7439-95-4	Magnesium	**3,000**		mg/kg dry	5.32	1.53	1	"	"	"	"	"	X
7439-96-5	Manganese	**969**	GS1, D	mg/kg dry	5.32	1.36	5	"	"	13-Oct-17	"	"	X
7440-23-5	Sodium	**61.5**		mg/kg dry	26.6	11.4	1	"	"	13-Oct-17	"	"	X
7440-02-0	Nickel	**9.70**		mg/kg dry	1.06	0.122	1	"	"	11-Oct-17	"	1717184	X
7439-92-1	Lead	**4.13**		mg/kg dry	1.60	0.226	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.32	U	mg/kg dry	5.32	0.400	1	"	"	"	"	"	X
7782-49-2	Selenium	**0.543**	J	mg/kg dry	1.60	0.305	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.19	U	mg/kg dry	3.19	1.17	1	"	"	"	"	"	X
7440-62-2	Vanadium	**5.52**		mg/kg dry	1.60	0.283	1	"	"	"	"	"	X
7440-66-6	Zinc	**52.0**		mg/kg dry	1.06	0.824	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**92.1**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404595-SW80													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
64-17-5	Ethanol	< 5.6		mg/kg	5.6	5.6	1	SW8015D MOD	06-Oct-17	06-Oct-17 23:28	11301	404595A	
78-83-1	Isobutyl alcohol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
67-56-1	Methanol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
71-23-8	Propanol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.6		mg/kg	5.6	5.6	1	"	"	"	"	"	
Surrogate recoveries:													
6032-29-7	*% 2-Pentanol(surr)*	*90*		*- %*				"	"	"	"	"	
Subcontracted Analyses Prepared by method 404391-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.2		ug/Kg	2.2	2.2	2	SW8081B	05-Oct-17	08-Oct-17 14:45	11301	404391A	
72-55-9	4,4' -DDE	< 2.2		ug/Kg	2.2	2.2	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.2		ug/Kg	2.2	2.2	2	"	"	"	"	"	
319-84-6	a-BHC	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.7		ug/Kg	3.7	3.7	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.7		ug/Kg	3.7	3.7	2	"	"	"	"	"	
319-85-7	b-BHC	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
57-74-9	Chlordane	< 37		ug/Kg	37	37	2	"	"	"	"	"	
319-86-8	d-BHC	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.7		ug/Kg	3.7	3.7	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
72-20-8	Endrin	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-9 SC39977-09	4884S-13	Soil	28-Sep-17 14:25	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7421-93-4	Endrin aldehyde	< 7.3		ug/Kg	7.3	7.3	2	SW8081B	05-Oct-17	08-Oct-17 14:45	11301	404391A	
53494-70-5	Endrin ketone	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.5		ug/Kg	1.5	1.5	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.7		ug/Kg	3.7	3.7	2	"	"	"	"	"	
76-44-8	Heptachlor	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 7.3		ug/Kg	7.3	7.3	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 37		ug/Kg	37	37	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 150		ug/Kg	150	150	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*58*			*40-140 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*120*			*40-140 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**90**		%			1	SW846-%Solid	28-Sep-17 14:25	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10 SC39977-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17

Volatile Organic Compounds

Prepared by method Volatiles

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716932	

Volatile Organic Compounds by SW846 8260

Prepared by method SW846 5035A Soil (low level) — Initial weight: 20.66 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.51	U	µg/kg dry	1.51	0.76	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
67-64-1	Acetone	**16.8**		µg/kg dry	15.1	6.03	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1.51	U	µg/kg dry	1.51	1.45	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.51	U	µg/kg dry	1.51	0.40	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.51	U	µg/kg dry	1.51	0.40	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.51	U	µg/kg dry	1.51	0.76	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.51	U	µg/kg dry	1.51	1.01	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.51	U	µg/kg dry	1.51	1.44	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 3.02	U	µg/kg dry	3.02	1.36	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.02	U	µg/kg dry	3.02	2.70	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.51	U	µg/kg dry	1.51	0.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.51	U	µg/kg dry	1.51	0.27	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	**0.80**	J	µg/kg dry	1.51	0.34	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	**12.2**		µg/kg dry	3.02	0.97	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.51	U	µg/kg dry	1.51	1.23	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.51	U	µg/kg dry	1.51	0.47	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.02	U	µg/kg dry	3.02	0.84	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.51	U	µg/kg dry	1.51	0.81	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 3.02	U	µg/kg dry	3.02	0.62	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.51	U	µg/kg dry	1.51	0.38	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.51	U	µg/kg dry	1.51	0.35	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 3.02	U	µg/kg dry	3.02	2.18	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.51	U	µg/kg dry	1.51	1.02	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.51	U	µg/kg dry	1.51	1.01	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.51	U	µg/kg dry	1.51	0.78	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.51	U	µg/kg dry	1.51	0.39	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.51	U	µg/kg dry	1.51	0.33	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.51	U	µg/kg dry	1.51	0.45	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.02	U	µg/kg dry	3.02	0.57	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.51	U	µg/kg dry	1.51	0.40	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.51	U	µg/kg dry	1.51	0.54	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.51	U	µg/kg dry	1.51	0.79	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.51	U	µg/kg dry	1.51	0.56	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.51	U	µg/kg dry	1.51	0.80	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.51	U	µg/kg dry	1.51	0.79	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.51	U	µg/kg dry	1.51	0.78	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.51	U	µg/kg dry	1.51	0.71	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.51	U	µg/kg dry	1.51	0.49	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.51	U	µg/kg dry	1.51	0.91	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.51	U	µg/kg dry	1.51	0.79	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17
SC39977-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
							Initial weight: 20.66 g						
100-41-4	Ethylbenzene	< 1.51	U	µg/kg dry	1.51	0.22	1	SW846 8260C	12-Oct-17	12-Oct-17	MP	1717335	X
87-68-3	Hexachlorobutadiene	< 1.51	U	µg/kg dry	1.51	0.76	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 3.02	U	µg/kg dry	3.02	1.85	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.51	U	µg/kg dry	1.51	0.30	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.51	U	µg/kg dry	1.51	0.32	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.51	U	µg/kg dry	1.51	0.56	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 3.02	U	µg/kg dry	3.02	0.78	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.02	U	µg/kg dry	3.02	0.60	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.51	U	µg/kg dry	1.51	0.90	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.51	U	µg/kg dry	1.51	0.24	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.51	U	µg/kg dry	1.51	0.30	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.51	U	µg/kg dry	1.51	1.28	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1.51	U	µg/kg dry	1.51	1.28	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.51	U	µg/kg dry	1.51	0.52	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.51	U	µg/kg dry	1.51	0.49	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.51	U	µg/kg dry	1.51	0.53	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.51	U	µg/kg dry	1.51	1.11	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.51	U	µg/kg dry	1.51	0.47	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.51	U	µg/kg dry	1.51	0.50	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.51	U	µg/kg dry	1.51	1.09	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.51	U	µg/kg dry	1.51	0.41	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.51	U	µg/kg dry	1.51	0.81	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.51	U	µg/kg dry	1.51	1.13	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.51	U	µg/kg dry	1.51	0.37	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.51	U	µg/kg dry	1.51	0.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.51	U	µg/kg dry	1.51	0.51	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.02	U	µg/kg dry	3.02	0.27	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.51	U	µg/kg dry	1.51	0.42	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 3.02	U	µg/kg dry	3.02	2.38	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.51	U	µg/kg dry	1.51	1.37	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.51	U	µg/kg dry	1.51	0.50	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.51	U	µg/kg dry	1.51	0.81	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.51	U	µg/kg dry	1.51	0.28	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 15.1	U	µg/kg dry	15.1	9.87	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 30.2	U	µg/kg dry	30.2	26.2	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 7.54	U	µg/kg dry	7.54	3.44	1	"	"	"	"	"	X
64-17-5	Ethanol	< 302	U	µg/kg dry	302	56.3	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*95*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*96*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*129*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10 SC39977-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Tentatively Identified Compounds by GC/MS													
							Initial weight: 20.66 g						
054676-39-0	Cyclohexane, 2-butyl-1,1,3-...	14	J N	µg/kg dry			1	SW846 8260C TICs	12-Oct-17	12-Oct-17	MP	1717335	
1000111-72-1	trans,trans-1,6-Dimethylspi...	15	J N	µg/kg dry			1	"	"	"	"	"	
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 69.7	U	µg/kg dry	69.7	34.7	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
208-96-8	Acenaphthylene	< 69.7	U	µg/kg dry	69.7	34.4	1	"	"	"	"	"	X
62-53-3	Aniline	< 345	U	µg/kg dry	345	24.8	1	"	"	"	"	"	X
120-12-7	Anthracene	< 69.7	U	µg/kg dry	69.7	33.3	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 345	U	µg/kg dry	345	33.9	1	"	"	"	"	"	
92-87-5	Benzidine	< 345	U	µg/kg dry	345	69.3	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 69.7	U	µg/kg dry	69.7	36.8	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 69.7	U	µg/kg dry	69.7	25.9	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 69.7	U	µg/kg dry	69.7	33.7	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 69.7	U	µg/kg dry	69.7	28.0	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 69.7	U	µg/kg dry	69.7	27.3	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 345	U	µg/kg dry	345	72.4	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 345	U	µg/kg dry	345	28.2	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 345	U	µg/kg dry	345	30.6	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 174	U	µg/kg dry	174	25.0	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 174	U	µg/kg dry	174	26.8	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 174	U	µg/kg dry	174	43.0	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 345	U	µg/kg dry	345	32.3	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 345	U	µg/kg dry	345	40.2	1	"	"	"	"	"	X
86-74-8	Carbazole	< 174	U	µg/kg dry	174	97.3	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 345	U	µg/kg dry	345	32.9	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 174	U	µg/kg dry	174	37.7	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 345	U	µg/kg dry	345	31.9	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 174	U	µg/kg dry	174	31.0	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 345	U	µg/kg dry	345	40.9	1	"	"	"	"	"	X
218-01-9	Chrysene	< 69.7	U	µg/kg dry	69.7	34.8	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 69.7	U	µg/kg dry	69.7	26.7	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 174	U	µg/kg dry	174	26.5	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 345	U	µg/kg dry	345	30.1	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 345	U	µg/kg dry	345	30.1	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 345	U	µg/kg dry	345	32.0	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 345	U	µg/kg dry	345	52.4	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 174	U	µg/kg dry	174	32.6	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 345	U	µg/kg dry	345	42.6	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 345	U	µg/kg dry	345	37.7	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17
SC39977-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
105-67-9	2,4-Dimethylphenol	< 345	U	µg/kg dry	345	24.6	1	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
84-74-2	Di-n-butyl phthalate	< 345	U	µg/kg dry	345	36.6	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 345	U	µg/kg dry	345	44.3	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 345	U	µg/kg dry	345	35.1	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 174	U	µg/kg dry	174	67.5	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 174	U	µg/kg dry	174	39.3	1	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 345	U	µg/kg dry	345	38.9	1	"	"	"	"	"	X
206-44-0	Fluoranthene	< 69.7	U	µg/kg dry	69.7	36.8	1	"	"	"	"	"	X
86-73-7	Fluorene	< 69.7	U	µg/kg dry	69.7	35.4	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 174	U	µg/kg dry	174	34.3	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 174	U	µg/kg dry	174	41.7	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 174	U	µg/kg dry	174	23.7	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 174	U	µg/kg dry	174	37.6	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 69.7	U	µg/kg dry	69.7	25.1	1	"	"	"	"	"	X
78-59-1	Isophorone	< 174	U	µg/kg dry	174	32.7	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 69.7	U	µg/kg dry	69.7	42.1	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 345	U	µg/kg dry	345	29.3	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 345	U	µg/kg dry	345	33.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 69.7	U	µg/kg dry	69.7	32.5	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 345	U	µg/kg dry	345	29.2	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 345	U	µg/kg dry	345	47.1	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 174	U	µg/kg dry	174	53.7	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 174	U	µg/kg dry	174	31.7	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 174	U	µg/kg dry	174	28.9	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1380	U	µg/kg dry	1380	55.7	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 174	U	µg/kg dry	174	32.4	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 174	U	µg/kg dry	174	34.0	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 345	U	µg/kg dry	345	37.4	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 345	U	µg/kg dry	345	36.8	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 69.7	U	µg/kg dry	69.7	32.4	1	"	"	"	"	"	X
108-95-2	Phenol	< 345	U	µg/kg dry	345	22.7	1	"	"	"	"	"	X
129-00-0	Pyrene	< 69.7	U	µg/kg dry	69.7	38.9	1	"	"	"	"	"	X
110-86-1	Pyridine	< 345	U	µg/kg dry	345	51.4	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 345	U	µg/kg dry	345	34.2	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 69.7	U	µg/kg dry	69.7	34.3	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 345	U	µg/kg dry	345	31.0	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 174	U	µg/kg dry	174	31.1	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 345	U	µg/kg dry	345	54.4	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 345	U	µg/kg dry	345	33.4	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*74*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*57*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*64*			*30-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10 SC39977-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
4165-62-2	*Phenol-d5*	*66*			*30-130 %*			SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	
1718-51-0	*Terphenyl-dl4*	*96*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*75*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds													
	Tentatively Identified Compounds	**None found**		µg/kg dry			1	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls			R01										
Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 208	U, D	µg/kg dry	208	93.1	10	SW846 8082A	10-Oct-17	12-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 208	U, D	µg/kg dry	208	111	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 208	U, D	µg/kg dry	208	104	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 208	U, D	µg/kg dry	208	205	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 208	U, D	µg/kg dry	208	190	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 208	U, D	µg/kg dry	208	136	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 208	U, D	µg/kg dry	208	111	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 208	U, D	µg/kg dry	208	181	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 208	U, D	µg/kg dry	208	93.7	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.48	U	mg/kg dry	1.48	0.159	1	SW846 6010C	10-Oct-17	11-Oct-17	EDT	1717184	X
7429-90-5	Aluminum	**3,120**		mg/kg dry	4.92	1.12	1	"	"	13-Oct-17	"	1717431	X
7440-38-2	Arsenic	**2.89**		mg/kg dry	1.48	0.187	1	"	"	11-Oct-17	"	1717184	X
7440-39-3	Barium	**21.6**		mg/kg dry	0.984	0.116	1	"	"	13-Oct-17	"	1717431	X
7440-41-7	Beryllium	**0.0836**	J	mg/kg dry	0.492	0.0247	1	"	"	11-Oct-17	"	1717184	X
7440-70-2	Calcium	**95,400**	GS1, D	mg/kg dry	246	50.4	10	"	"	13-Oct-17	"	1717431	X
7440-43-9	Cadmium	< 0.492	U	mg/kg dry	0.492	0.0255	1	"	"	11-Oct-17	"	1717184	X
7440-48-4	Cobalt	**2.44**		mg/kg dry	0.984	0.0570	1	"	"	"	"	"	X
7440-47-3	Chromium	**3.28**		mg/kg dry	0.984	0.131	1	"	"	13-Oct-17	"	1717431	X
7440-50-8	Copper	**13.4**		mg/kg dry	0.984	0.236	1	"	"	11-Oct-17	"	1717184	X
7439-89-6	Iron	**6,780**		mg/kg dry	3.94	2.03	1	"	"	13-Oct-17	"	1717431	X
7439-97-6	Mercury	< 0.0301	U	mg/kg dry	0.0301	0.0084	1	SW846 7471B	11-Oct-17	12-Oct-17	LNB	1717185	X
Prepared by method SW846 3050B													
7440-09-7	Potassium	**566**		mg/kg dry	49.2	3.43	1	SW846 6010C	10-Oct-17	13-Oct-17	CAW	1717431	X
7439-95-4	Magnesium	**18,400**	GS1, D	mg/kg dry	49.2	14.2	10	"	"	13-Oct-17	"	"	X
7439-96-5	Manganese	**1,430**	GS1, D	mg/kg dry	9.84	2.51	10	"	"	"	"	"	X
7440-23-5	Sodium	**117**		mg/kg dry	24.6	10.6	1	"	"	13-Oct-17	"	"	X
7440-02-0	Nickel	**6.62**		mg/kg dry	0.984	0.113	1	"	"	11-Oct-17	"	1717184	X
7439-92-1	Lead	**5.28**		mg/kg dry	1.48	0.209	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST EX-10 SC39977-10	4884S-13	Soil	28-Sep-17 15:45	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 6000/7000 Series Methods													
7440-36-0	Antimony	**0.462**	J	mg/kg dry	4.92	0.370	1	SW846 6010C	10-Oct-17	11-Oct-17	EDT	1717184	X
7782-49-2	Selenium	**0.866**	J	mg/kg dry	1.48	0.281	1	"	"	"	"	"	X
7440-28-0	Thallium	< 2.95	U	mg/kg dry	2.95	1.09	1	"	"	"	"	"	X
7440-62-2	Vanadium	**5.51**		mg/kg dry	1.48	0.262	1	"	"	"	"	"	X
7440-66-6	Zinc	**37.6**		mg/kg dry	0.984	0.762	1	"	"	"	"	"	X
General Chemistry Parameters													
	% Solids	**95.4**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1716982	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404391-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.0		ug/Kg	2.0	2.0	2	SW8081B	05-Oct-17	08-Oct-17 15:02	11301	404391A	
72-55-9	4,4' -DDE	< 2.0		ug/Kg	2.0	2.0	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.0		ug/Kg	2.0	2.0	2	"	"	"	"	"	
319-84-6	a-BHC	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
319-85-7	b-BHC	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
57-74-9	Chlordane	< 34		ug/Kg	34	34	2	"	"	"	"	"	
319-86-8	d-BHC	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
72-20-8	Endrin	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.3		ug/Kg	1.3	1.3	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.4		ug/Kg	3.4	3.4	2	"	"	"	"	"	
76-44-8	Heptachlor	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 6.7		ug/Kg	6.7	6.7	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 34		ug/Kg	34	34	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 130		ug/Kg	130	130	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*98*			*40-140 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*111*			*40-140 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**97**		%			1	SW846-%Solid	28-Sep-17 15:45	05-Oct-17 22:13	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC39977-11	4884S-13	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5035A Soil (low level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	2.54	1	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717293	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.06	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.24	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.72	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	6.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC39977-11	4884S-13	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717293	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	1.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	7.88	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*94*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*129*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5035A Soil (high level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0	25.4	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC39977-11	4884S-13	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
67-64-1	Acetone	< 500	U, D	µg/kg wet	500	200	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
107-13-1	Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0	48.0	50	"	"	"	"	"	X
71-43-2	Benzene	< 50.0	U, D	µg/kg wet	50.0	13.2	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 50.0	U, D	µg/kg wet	50.0	13.4	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0	25.2	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0	33.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 50.0	U, D	µg/kg wet	50.0	47.7	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 100	U, D	µg/kg wet	100	45.2	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 100	U, D	µg/kg wet	100	89.4	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	14.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.10	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0	11.2	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 100	U, D	µg/kg wet	100	32.0	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0	40.9	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 100	U, D	µg/kg wet	100	27.8	50	"	"	"	"	"	X
67-66-3	Chloroform	< 50.0	U, D	µg/kg wet	50.0	26.8	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 100	U, D	µg/kg wet	100	20.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	12.4	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0	11.8	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100	72.2	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0	33.9	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0	33.6	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 50.0	U, D	µg/kg wet	50.0	26.0	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	13.0	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	14.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100	19.0	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	13.1	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0	17.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	18.6	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0	26.5	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	25.9	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0	23.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	16.1	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	30.2	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0	26.2	50	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0	7.20	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0	25.1	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100	61.4	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0	9.85	50	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC39977-11	4884S-13	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260													
99-87-6	4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0	10.8	50	SW846 8260C	11-Oct-17	11-Oct-17	MP	1717290	X
1634-04-4	Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	18.4	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100	25.7	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 100	U, D	µg/kg wet	100	19.8	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 50.0	U, D	µg/kg wet	50.0	29.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.10	50	"	"	"	"	"	X
100-42-5	Styrene	< 50.0	U, D	µg/kg wet	50.0	10.0	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.5	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0	42.3	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0	17.1	50	"	"	"	"	"	X
108-88-3	Toluene	< 50.0	U, D	µg/kg wet	50.0	16.2	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	17.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	36.8	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0	15.7	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	16.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0	36.2	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 50.0	U, D	µg/kg wet	50.0	13.6	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0	37.5	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	12.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0	8.60	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0	16.9	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 100	U, D	µg/kg wet	100	9.00	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 50.0	U, D	µg/kg wet	50.0	14.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 100	U, D	µg/kg wet	100	78.8	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 50.0	U, D	µg/kg wet	50.0	45.3	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0	16.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0	27.0	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0	9.30	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500	327	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1000	U, D	µg/kg wet	1000	868	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 250	U, D	µg/kg wet	250	114	50	"	"	"	"	"	X
64-17-5	Ethanol	< 10000	U, D	µg/kg wet	10000	1860	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*100*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*100*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*93*			*70-130 %*			"	"	"	"	"	
Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (low level)													
	Tentatively Identified Compounds	**None found**		µg/kg wet			1	SW846 8260C TICs	11-Oct-17	11-Oct-17	MP	1717293	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank SC39977-11	4884S-13	Methanol/Deionized Water	28-Sep-17 00:00	02-Oct-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Tentatively Identified Compounds by GC/MS Prepared by method SW846 5035A Soil (high level)													
	Tentatively Identified Compounds	**None found**		µg/kg wet			50	SW846 8260C TICs	11-Oct-17	11-Oct-17	MP	1717290	

Semivolatile Organic Compounds by GCMS

Semivolatile Organic Compounds Prepared by method SW846 3546 — R01

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
83-32-9	Acenaphthene	< 372	U, D	µg/kg dry	372	185	5	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
208-96-8	Acenaphthylene	< 372	U, D	µg/kg dry	372	183	5	"	"	"	"	"	X
62-53-3	Aniline	< 1840	U, D	µg/kg dry	1840	132	5	"	"	"	"	"	X
120-12-7	Anthracene	**210**	J, D	µg/kg dry	372	178	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1840	U, D	µg/kg dry	1840	181	5	"	"	"	"	"	
92-87-5	Benzidine	< 1840	U, D	µg/kg dry	1840	370	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	**390**	D	µg/kg dry	372	196	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	**310**	J, D	µg/kg dry	372	138	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	**217**	J, D	µg/kg dry	372	180	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	**162**	J, D	µg/kg dry	372	149	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	**340**	J, D	µg/kg dry	372	145	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1840	U, D	µg/kg dry	1840	386	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1840	U, D	µg/kg dry	1840	151	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1840	U, D	µg/kg dry	1840	163	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 931	U, D	µg/kg dry	931	133	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 931	U, D	µg/kg dry	931	143	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 931	U, D	µg/kg dry	931	230	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1840	U, D	µg/kg dry	1840	172	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1840	U, D	µg/kg dry	1840	215	5	"	"	"	"	"	X
86-74-8	Carbazole	< 931	U, D	µg/kg dry	931	519	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1840	U, D	µg/kg dry	1840	176	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 931	U, D	µg/kg dry	931	201	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1840	U, D	µg/kg dry	1840	170	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 931	U, D	µg/kg dry	931	166	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1840	U, D	µg/kg dry	1840	218	5	"	"	"	"	"	X
218-01-9	Chrysene	**360**	J, D	µg/kg dry	372	186	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 372	U, D	µg/kg dry	372	143	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 931	U, D	µg/kg dry	931	142	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	160	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	160	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1840	U, D	µg/kg dry	1840	171	5	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 1840	U, D	µg/kg dry	1840	280	5	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 931	U, D	µg/kg dry	931	174	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1840	U, D	µg/kg dry	1840	227	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1840	U, D	µg/kg dry	1840	201	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1840	U, D	µg/kg dry	1840	132	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1840	U, D	µg/kg dry	1840	195	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1840	U, D	µg/kg dry	1840	236	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1840	U, D	µg/kg dry	1840	187	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 931	U, D	µg/kg dry	931	360	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 931	U, D	µg/kg dry	931	210	5	"	"	"	"	"	X

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds			R01										
117-84-0	Di-n-octyl phthalate	< 1840	U, D	µg/kg dry	1840	208	5	SW846 8270D	04-Oct-17	11-Oct-17	MSL	1716926	X
206-44-0	Fluoranthene	**685**	D	µg/kg dry	372	196	5	"	"	"	"	"	X
86-73-7	Fluorene	< 372	U, D	µg/kg dry	372	189	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 931	U, D	µg/kg dry	931	183	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 931	U, D	µg/kg dry	931	222	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 931	U, D	µg/kg dry	931	127	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 931	U, D	µg/kg dry	931	201	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	**197**	J, D	µg/kg dry	372	134	5	"	"	"	"	"	X
78-59-1	Isophorone	< 931	U, D	µg/kg dry	931	174	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 372	U, D	µg/kg dry	372	225	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1840	U, D	µg/kg dry	1840	156	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1840	U, D	µg/kg dry	1840	178	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 372	U, D	µg/kg dry	372	173	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1840	U, D	µg/kg dry	1840	156	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1840	U, D	µg/kg dry	1840	251	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 931	U, D	µg/kg dry	931	286	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 931	U, D	µg/kg dry	931	169	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 931	U, D	µg/kg dry	931	154	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7360	U, D	µg/kg dry	7360	297	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 931	U, D	µg/kg dry	931	173	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 931	U, D	µg/kg dry	931	181	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1840	U, D	µg/kg dry	1840	199	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1840	U, D	µg/kg dry	1840	196	5	"	"	"	"	"	X
85-01-8	Phenanthrene	**858**	D	µg/kg dry	372	173	5	"	"	"	"	"	X
108-95-2	Phenol	**241**	J, D	µg/kg dry	1840	121	5	"	"	"	"	"	X
129-00-0	Pyrene	**589**	D	µg/kg dry	372	207	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1840	U, D	µg/kg dry	1840	274	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1840	U, D	µg/kg dry	1840	182	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 372	U, D	µg/kg dry	372	183	5	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 1840	U, D	µg/kg dry	1840	166	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 931	U, D	µg/kg dry	931	166	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1840	U, D	µg/kg dry	1840	290	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1840	U, D	µg/kg dry	1840	178	5	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*58*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*51*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*60*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*56*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*73*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*71*			*30-130 %*			"	"	"	"	"	
Tentatively Identified Compounds			R01										
	Tentatively Identified Compounds	**None found**		µg/kg dry			5	SW846 8270D TICS	"	"	MSL	"	
Semivolatile Organic Compounds by GC													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-COMP SC39977-12	4884S-13	Soil	28-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546			R01										
12674-11-2	Aroclor-1016	< 217	U, D	µg/kg dry	217	97.1	10	SW846 8082A	10-Oct-17	12-Oct-17	IMR	1717183	X
11104-28-2	Aroclor-1221	< 217	U, D	µg/kg dry	217	115	10	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 217	U, D	µg/kg dry	217	108	10	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 217	U, D	µg/kg dry	217	214	10	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 217	U, D	µg/kg dry	217	198	10	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 217	U, D	µg/kg dry	217	142	10	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 217	U, D	µg/kg dry	217	116	10	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 217	U, D	µg/kg dry	217	189	10	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 217	U, D	µg/kg dry	217	97.8	10	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*150*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*100*			*30-150 %*			"	"	"	"	"	
General Chemistry Parameters													
	Sample Prep	**Completed**		N/A			1	SAI SOP	05-Oct-17		BD	1717010	
	% Solids	**89.6**		%			1	SM2540 G (11) Mod.	05-Oct-17	05-Oct-17	MBR	1717019	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404595-SW80													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
64-17-5	Ethanol	< 5.7		mg/kg	5.7	5.7	1	SW8015D MOD	06-Oct-17	07-Oct-17 00:11	11301	404595A	
78-83-1	Isobutyl alcohol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
67-63-0	Isopropyl alcohol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
67-56-1	Methanol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
71-36-3	n-Butanol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
71-23-8	Propanol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
78-92-2	Sec-Butanol	< 5.7		mg/kg	5.7	5.7	1	"	"	"	"	"	
Surrogate recoveries:													
6032-29-7	*% 2-Pentanol(surr)*	*96*			*- %*			"	"	"	"	"	
Subcontracted Analyses Prepared by method 404584-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.3		ug/Kg	2.3	2.3	2	SW8081B	"	09-Oct-17 22:51	11301	404584A	
72-55-9	4,4' -DDE	< 2.3		ug/Kg	2.3	2.3	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.3		ug/Kg	2.3	2.3	2	"	"	"	"	"	
319-84-6	a-BHC	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
319-85-7	b-BHC	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
57-74-9	Chlordane	< 38		ug/Kg	38	38	2	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-COMP SC39977-12	4884S-13	Soil	28-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
319-86-8	d-BHC	< 7.6		ug/Kg	7.6	7.6	2	SW8081B	06-Oct-17	09-Oct-17 22:51	11301	404584A	
60-57-1	Dieldrin	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
72-20-8	Endrin	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.5		ug/Kg	1.5	1.5	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.8		ug/Kg	3.8	3.8	2	"	"	"	"	"	
76-44-8	Heptachlor	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 7.6		ug/Kg	7.6	7.6	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 38		ug/Kg	38	38	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 150		ug/Kg	150	150	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*105*			*40-140 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*92*			*40-140 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**87**		%			1	SW846-%Solid	28-Sep-17	05-Oct-17 22:13	11301	'[none]'	
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404447-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7429-90-5	Aluminum	**14,000**		mg/Kg	39	39	10	SW6010C	05-Oct-17	09-Oct-17 18:00	11301	404447A	
7440-36-0	Antimony	< 2.0		mg/Kg	2.0	2.0	1	"	"	09-Oct-17 20:02	"	"	
7440-38-2	Arsenic	**8.37**		mg/Kg	0.79	0.79	1	"	"	"	"	"	
7440-39-3	Barium	**73.8**		mg/Kg	0.8	0.8	1	"	"	"	"	"	
7440-41-7	Beryllium	**0.50**		mg/Kg	0.31	0.31	1	"	"	"	"	"	
7440-43-9	Cadmium	**0.56**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7440-70-2	Calcium	**25,100**		mg/Kg	39	39	10	"	"	09-Oct-17 18:00	"	"	
7440-47-3	Chromium	**11.7**		mg/Kg	0.39	0.39	1	"	"	09-Oct-17 20:02	"	"	
7440-48-4	Cobalt	**13.6**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7440-50-8	Copper	**39.7**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7439-89-6	Iron	**18,200**		mg/Kg	39	39	10	"	"	09-Oct-17 18:00	"	"	
7439-92-1	Lead	**15.1**		mg/Kg	0.8	0.8	1	"	"	09-Oct-17 20:02	"	"	
7439-95-4	Magnesium	**2,780**		mg/Kg	3.9	3.9	1	"	"	"	"	"	
7439-96-5	Manganese	**901**		mg/Kg	3.9	3.9	10	"	"	09-Oct-17 18:00	"	"	
7440-02-0	Nickel	**33.0**		mg/Kg	0.39	0.39	1	"	"	09-Oct-17 20:02	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
UST CS-COMP SC39977-12	4884S-13	Soil	28-Sep-17 00:00	02-Oct-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7440-09-7	Potassium	**1,200**		mg/Kg	8	8	1	SW6010C	05-Oct-17	09-Oct-17 20:02	11301	404447A	
7782-49-2	Selenium	< 1.6		mg/Kg	1.6	1.6	1	"	"	"	"	"	
7440-22-4	Silver	< 0.39		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7440-23-5	Sodium	**109**		mg/Kg	8	8	1	"	"	"	"	"	
7440-28-0	Thallium	< 1.6		mg/Kg	1.6	1.6	1	"	"	"	"	"	
7440-62-2	Vanadium	**14.5**		mg/Kg	0.39	0.39	1	"	"	"	"	"	
7440-66-6	Zinc	**137**		mg/Kg	0.8	0.8	1	"	"	"	"	"	
Prepared by method 404512-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
7439-97-6	Mercury	< 0.03		mg/Kg	0.03	0.03	1	SW7471B	06-Oct-17	06-Oct-17 12:54	11301	404512A	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717131 - SW846 5035A Soil (low level)										
Blank (1717131-BLK1)					Prepared & Analyzed: 09-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717131 - SW846 5035A Soil (low level)										
Blank (1717131-BLK1)					Prepared & Analyzed: 09-Oct-17					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*47.1*		µg/kg		*50.0*		*94*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*64.8*		µg/kg		*50.0*		*130*	*70-130*		
Surrogate: Dibromofluoromethane	*55.2*		µg/kg		*50.0*		*110*	*70-130*		
LCS (1717131-BS1)					Prepared & Analyzed: 09-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.8**		µg/kg		20.0		104	70-130		
Acetone	**27.1**		µg/kg		20.0		135	70-130		
Acrylonitrile	**22.3**		µg/kg		20.0		112	70-130		
Benzene	**20.2**		µg/kg		20.0		101	70-130		
Bromobenzene	**17.4**		µg/kg		20.0		87	70-130		
Bromochloromethane	**20.0**		µg/kg		20.0		100	70-130		
Bromodichloromethane	**22.7**		µg/kg		20.0		114	70-130		
Bromoform	**18.8**		µg/kg		20.0		94	70-130		
Bromomethane	**21.4**		µg/kg		20.0		107	70-130		
2-Butanone (MEK)	**17.8**		µg/kg		20.0		89	70-130		
n-Butylbenzene	**20.0**		µg/kg		20.0		100	70-130		
sec-Butylbenzene	**18.3**		µg/kg		20.0		92	70-130		
tert-Butylbenzene	**17.4**		µg/kg		20.0		87	70-130		
Carbon disulfide	**23.3**		µg/kg		20.0		116	70-130		
Carbon tetrachloride	**21.7**		µg/kg		20.0		109	70-130		
Chlorobenzene	**18.0**		µg/kg		20.0		90	70-130		
Chloroethane	**24.6**		µg/kg		20.0		123	70-130		
Chloroform	**21.0**		µg/kg		20.0		105	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717131 - SW846 5035A Soil (low level)										
LCS (1717131-BS1)					Prepared & Analyzed: 09-Oct-17					
Chloromethane	**22.6**		µg/kg		20.0		113	70-130		
2-Chlorotoluene	**18.8**		µg/kg		20.0		94	70-130		
4-Chlorotoluene	**19.0**		µg/kg		20.0		95	70-130		
1,2-Dibromo-3-chloropropane	**20.0**		µg/kg		20.0		100	70-130		
Dibromochloromethane	**21.7**		µg/kg		20.0		109	70-130		
1,2-Dibromoethane (EDB)	**19.8**		µg/kg		20.0		99	70-130		
Dibromomethane	**22.0**		µg/kg		20.0		110	70-130		
1,2-Dichlorobenzene	**18.4**		µg/kg		20.0		92	70-130		
1,3-Dichlorobenzene	**17.5**		µg/kg		20.0		88	70-130		
1,4-Dichlorobenzene	**18.5**		µg/kg		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	**21.8**		µg/kg		20.0		109	70-130		
1,1-Dichloroethane	**21.4**		µg/kg		20.0		107	70-130		
1,2-Dichloroethane	**22.6**		µg/kg		20.0		113	70-130		
1,1-Dichloroethene	**20.8**		µg/kg		20.0		104	70-130		
cis-1,2-Dichloroethene	**19.8**		µg/kg		20.0		99	70-130		
trans-1,2-Dichloroethene	**19.4**		µg/kg		20.0		97	70-130		
1,2-Dichloropropane	**20.9**		µg/kg		20.0		105	70-130		
1,3-Dichloropropane	**20.5**		µg/kg		20.0		102	70-130		
2,2-Dichloropropane	**17.0**		µg/kg		20.0		85	70-130		
1,1-Dichloropropene	**20.0**		µg/kg		20.0		100	70-130		
cis-1,3-Dichloropropene	**19.4**		µg/kg		20.0		97	70-130		
trans-1,3-Dichloropropene	**18.8**		µg/kg		20.0		94	70-130		
Ethylbenzene	**18.7**		µg/kg		20.0		93	70-130		
Hexachlorobutadiene	**18.9**		µg/kg		20.0		94	70-130		
2-Hexanone (MBK)	**16.4**		µg/kg		20.0		82	70-130		
Isopropylbenzene	**18.2**		µg/kg		20.0		91	70-130		
4-Isopropyltoluene	**19.7**		µg/kg		20.0		98	70-130		
Methyl tert-butyl ether	**16.9**		µg/kg		20.0		85	70-130		
4-Methyl-2-pentanone (MIBK)	**16.2**		µg/kg		20.0		81	70-130		
Methylene chloride	**20.8**		µg/kg		20.0		104	70-130		
Naphthalene	**14.0**		µg/kg		20.0		70	70-130		
n-Propylbenzene	**18.7**		µg/kg		20.0		94	70-130		
Styrene	**16.0**		µg/kg		20.0		80	70-130		
1,1,1,2-Tetrachloroethane	**18.8**		µg/kg		20.0		94	70-130		
1,1,2,2-Tetrachloroethane	**19.0**		µg/kg		20.0		95	70-130		
Tetrachloroethene	**18.4**		µg/kg		20.0		92	70-130		
Toluene	**19.8**		µg/kg		20.0		99	70-130		
1,2,3-Trichlorobenzene	**19.1**		µg/kg		20.0		95	70-130		
1,2,4-Trichlorobenzene	**18.7**		µg/kg		20.0		94	70-130		
1,3,5-Trichlorobenzene	**20.0**		µg/kg		20.0		100	70-130		
1,1,1-Trichloroethane	**20.5**		µg/kg		20.0		102	70-130		
1,1,2-Trichloroethane	**19.8**		µg/kg		20.0		99	70-130		
Trichloroethene	**19.8**		µg/kg		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	**25.9**		µg/kg		20.0		129	70-130		
1,2,3-Trichloropropane	**19.0**		µg/kg		20.0		95	70-130		
1,2,4-Trimethylbenzene	**18.6**		µg/kg		20.0		93	70-130		
1,3,5-Trimethylbenzene	**18.2**		µg/kg		20.0		91	70-130		
Vinyl chloride	**25.2**		µg/kg		20.0		126	70-130		
m,p-Xylene	**17.3**		µg/kg		20.0		86	70-130		
o-Xylene	**17.9**		µg/kg		20.0		90	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717131 - SW846 5035A Soil (low level)										
LCS (1717131-BS1)						Prepared & Analyzed: 09-Oct-17				
Tetrahydrofuran	**17.6**		µg/kg		20.0		88	70-130		
Ethyl ether	**23.4**		µg/kg		20.0		117	70-130		
Tert-amyl methyl ether	**26.0**		µg/kg		20.0		130	70-130		
Ethyl tert-butyl ether	**18.0**		µg/kg		20.0		90	70-130		
Di-isopropyl ether	**21.6**		µg/kg		20.0		108	70-130		
Tert-Butanol / butyl alcohol	**173**		µg/kg		200		87	70-130		
1,4-Dioxane	**153**		µg/kg		200		76	70-130		
trans-1,4-Dichloro-2-butene	**14.1**		µg/kg		20.0		70	70-130		
Ethanol	**431**		µg/kg		400		108	70-130		
Surrogate: 4-Bromofluorobenzene	*49.6*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*50.9*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.4*		µg/kg		*50.0*		*113*	*70-130*		
Surrogate: Dibromofluoromethane	*52.2*		µg/kg		*50.0*		*104*	*70-130*		
LCS Dup (1717131-BSD1)						Prepared & Analyzed: 09-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.9**		µg/kg		20.0		100	70-130	4	30
Acetone	**30.9**		µg/kg		20.0		154	70-130	13	30
Acrylonitrile	**25.6**		µg/kg		20.0		128	70-130	14	30
Benzene	**20.0**		µg/kg		20.0		100	70-130	1	30
Bromobenzene	**17.9**		µg/kg		20.0		90	70-130	3	30
Bromochloromethane	**20.8**		µg/kg		20.0		104	70-130	4	30
Bromodichloromethane	**22.8**		µg/kg		20.0		114	70-130	0.2	30
Bromoform	**20.2**		µg/kg		20.0		101	70-130	8	30
Bromomethane	**21.1**		µg/kg		20.0		105	70-130	2	30
2-Butanone (MEK)	**23.6**		µg/kg		20.0		118	70-130	28	30
n-Butylbenzene	**20.3**		µg/kg		20.0		102	70-130	2	30
sec-Butylbenzene	**17.9**		µg/kg		20.0		90	70-130	2	30
tert-Butylbenzene	**17.2**		µg/kg		20.0		86	70-130	1	30
Carbon disulfide	**22.4**		µg/kg		20.0		112	70-130	4	30
Carbon tetrachloride	**20.6**		µg/kg		20.0		103	70-130	5	30
Chlorobenzene	**17.8**		µg/kg		20.0		89	70-130	0.8	30
Chloroethane	**24.4**		µg/kg		20.0		122	70-130	0.9	30
Chloroform	**20.5**		µg/kg		20.0		103	70-130	2	30
Chloromethane	**17.1**		µg/kg		20.0		86	70-130	28	30
2-Chlorotoluene	**18.1**		µg/kg		20.0		90	70-130	4	30
4-Chlorotoluene	**19.0**		µg/kg		20.0		95	70-130	0.3	30
1,2-Dibromo-3-chloropropane	**24.2**		µg/kg		20.0		121	70-130	19	30
Dibromochloromethane	**22.8**		µg/kg		20.0		114	70-130	5	30
1,2-Dibromoethane (EDB)	**21.8**		µg/kg		20.0		109	70-130	10	30
Dibromomethane	**23.2**		µg/kg		20.0		116	70-130	6	30
1,2-Dichlorobenzene	**19.1**		µg/kg		20.0		96	70-130	4	30
1,3-Dichlorobenzene	**18.0**		µg/kg		20.0		90	70-130	2	30
1,4-Dichlorobenzene	**18.9**		µg/kg		20.0		94	70-130	2	30
Dichlorodifluoromethane (Freon12)	**21.5**		µg/kg		20.0		108	70-130	1	30
1,1-Dichloroethane	**21.0**		µg/kg		20.0		105	70-130	2	30
1,2-Dichloroethane	**23.9**		µg/kg		20.0		119	70-130	5	30
1,1-Dichloroethene	**20.1**		µg/kg		20.0		101	70-130	4	30
cis-1,2-Dichloroethene	**19.8**		µg/kg		20.0		99	70-130	0.1	30
trans-1,2-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130	1	30
1,2-Dichloropropane	**20.9**		µg/kg		20.0		105	70-130	0.1	30
1,3-Dichloropropane	**22.1**		µg/kg		20.0		110	70-130	8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717131 - SW846 5035A Soil (low level)										
LCS Dup (1717131-BSD1)					Prepared & Analyzed: 09-Oct-17					
2,2-Dichloropropane	**16.4**		µg/kg		20.0		82	70-130	4	30
1,1-Dichloropropene	**19.9**		µg/kg		20.0		100	70-130	0.3	30
cis-1,3-Dichloropropene	**19.8**		µg/kg		20.0		99	70-130	2	30
trans-1,3-Dichloropropene	**19.7**		µg/kg		20.0		98	70-130	5	30
Ethylbenzene	**18.2**		µg/kg		20.0		91	70-130	3	30
Hexachlorobutadiene	**18.7**		µg/kg		20.0		93	70-130	0.9	30
2-Hexanone (MBK)	**19.4**		µg/kg		20.0		97	70-130	17	30
Isopropylbenzene	**17.9**		µg/kg		20.0		90	70-130	2	30
4-Isopropyltoluene	**19.2**		µg/kg		20.0		96	70-130	3	30
Methyl tert-butyl ether	**18.7**		µg/kg		20.0		93	70-130	10	30
4-Methyl-2-pentanone (MIBK)	**22.1**	QR2	µg/kg		20.0		111	70-130	31	30
Methylene chloride	**19.6**		µg/kg		20.0		98	70-130	6	30
Naphthalene	**18.4**		µg/kg		20.0		92	70-130	27	30
n-Propylbenzene	**18.6**		µg/kg		20.0		93	70-130	0.9	30
Styrene	**17.8**		µg/kg		20.0		89	70-130	11	30
1,1,1,2-Tetrachloroethane	**18.6**		µg/kg		20.0		93	70-130	1	30
1,1,2,2-Tetrachloroethane	**21.8**		µg/kg		20.0		109	70-130	14	30
Tetrachloroethene	**18.4**		µg/kg		20.0		92	70-130	0.1	30
Toluene	**19.7**		µg/kg		20.0		98	70-130	0.8	30
1,2,3-Trichlorobenzene	**21.0**		µg/kg		20.0		105	70-130	10	30
1,2,4-Trichlorobenzene	**20.7**		µg/kg		20.0		103	70-130	10	30
1,3,5-Trichlorobenzene	**20.5**		µg/kg		20.0		103	70-130	3	30
1,1,1-Trichloroethane	**19.8**		µg/kg		20.0		99	70-130	3	30
1,1,2-Trichloroethane	**22.2**		µg/kg		20.0		111	70-130	11	30
Trichloroethene	**19.4**		µg/kg		20.0		97	70-130	2	30
Trichlorofluoromethane (Freon 11)	**25.7**		µg/kg		20.0		129	70-130	0.6	30
1,2,3-Trichloropropane	**22.2**		µg/kg		20.0		111	70-130	16	30
1,2,4-Trimethylbenzene	**18.8**		µg/kg		20.0		94	70-130	1	30
1,3,5-Trimethylbenzene	**18.2**		µg/kg		20.0		91	70-130	0.05	30
Vinyl chloride	**24.4**		µg/kg		20.0		122	70-130	3	30
m,p-Xylene	**17.0**		µg/kg		20.0		85	70-130	1	30
o-Xylene	**17.9**		µg/kg		20.0		90	70-130	0.2	30
Tetrahydrofuran	**22.3**		µg/kg		20.0		111	70-130	23	30
Ethyl ether	**25.2**		µg/kg		20.0		126	70-130	7	30
Tert-amyl methyl ether	**28.4**	QM9	µg/kg		20.0		142	70-130	9	30
Ethyl tert-butyl ether	**19.2**		µg/kg		20.0		96	70-130	6	30
Di-isopropyl ether	**22.4**		µg/kg		20.0		112	70-130	3	30
Tert-Butanol / butyl alcohol	**182**		µg/kg		200		91	70-130	5	30
1,4-Dioxane	**187**		µg/kg		200		93	70-130	20	30
trans-1,4-Dichloro-2-butene	**16.2**		µg/kg		20.0		81	70-130	14	30
Ethanol	**493**		µg/kg		400		123	70-130	13	30
Surrogate: 4-Bromofluorobenzene	*50.4*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*59.5*		µg/kg		*50.0*		*119*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/kg		*50.0*		*105*	*70-130*		
Batch 1717197 - SW846 5035A Soil (low level)										
Blank (1717197-BLK1)					Prepared & Analyzed: 10-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717197 - SW846 5035A Soil (low level)										
Blank (1717197-BLK1)					Prepared & Analyzed: 10-Oct-17					
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717197 - SW846 5035A Soil (low level)										
Blank (1717197-BLK1)					Prepared & Analyzed: 10-Oct-17					
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*45.8*		µg/kg		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*49.1*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*64.8*		µg/kg		*50.0*		*130*	*70-130*		
Surrogate: Dibromofluoromethane	*52.4*		µg/kg		*50.0*		*105*	*70-130*		
LCS (1717197-BS1)					Prepared & Analyzed: 10-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.7**		µg/kg		20.0		103	70-130		
Acetone	**25.1**		µg/kg		20.0		126	70-130		
Acrylonitrile	**21.3**		µg/kg		20.0		106	70-130		
Benzene	**20.6**		µg/kg		20.0		103	70-130		
Bromobenzene	**18.3**		µg/kg		20.0		92	70-130		
Bromochloromethane	**19.5**		µg/kg		20.0		98	70-130		
Bromodichloromethane	**21.1**		µg/kg		20.0		106	70-130		
Bromoform	**14.6**		µg/kg		20.0		73	70-130		
Bromomethane	**23.3**		µg/kg		20.0		116	70-130		
2-Butanone (MEK)	**23.2**		µg/kg		20.0		116	70-130		
n-Butylbenzene	**23.9**		µg/kg		20.0		119	70-130		
sec-Butylbenzene	**19.6**		µg/kg		20.0		98	70-130		
tert-Butylbenzene	**18.6**		µg/kg		20.0		93	70-130		
Carbon disulfide	**20.9**		µg/kg		20.0		104	70-130		
Carbon tetrachloride	**19.2**		µg/kg		20.0		96	70-130		
Chlorobenzene	**19.1**		µg/kg		20.0		95	70-130		
Chloroethane	**23.4**		µg/kg		20.0		117	70-130		
Chloroform	**21.4**		µg/kg		20.0		107	70-130		
Chloromethane	**23.5**		µg/kg		20.0		118	70-130		
2-Chlorotoluene	**19.6**		µg/kg		20.0		98	70-130		
4-Chlorotoluene	**20.8**		µg/kg		20.0		104	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717197 - SW846 5035A Soil (low level)										
LCS (1717197-BS1)					Prepared & Analyzed: 10-Oct-17					
1,2-Dibromo-3-chloropropane	**17.9**		µg/kg		20.0		90	70-130		
Dibromochloromethane	**18.1**		µg/kg		20.0		91	70-130		
1,2-Dibromoethane (EDB)	**19.1**		µg/kg		20.0		95	70-130		
Dibromomethane	**20.9**		µg/kg		20.0		104	70-130		
1,2-Dichlorobenzene	**20.6**		µg/kg		20.0		103	70-130		
1,3-Dichlorobenzene	**18.8**		µg/kg		20.0		94	70-130		
1,4-Dichlorobenzene	**20.5**		µg/kg		20.0		103	70-130		
Dichlorodifluoromethane (Freon12)	**21.7**		µg/kg		20.0		109	70-130		
1,1-Dichloroethane	**21.6**		µg/kg		20.0		108	70-130		
1,2-Dichloroethane	**23.0**		µg/kg		20.0		115	70-130		
1,1-Dichloroethene	**20.6**		µg/kg		20.0		103	70-130		
cis-1,2-Dichloroethene	**20.4**		µg/kg		20.0		102	70-130		
trans-1,2-Dichloroethene	**19.9**		µg/kg		20.0		99	70-130		
1,2-Dichloropropane	**21.3**		µg/kg		20.0		106	70-130		
1,3-Dichloropropane	**21.1**		µg/kg		20.0		105	70-130		
2,2-Dichloropropane	**14.6**		µg/kg		20.0		73	70-130		
1,1-Dichloropropene	**20.6**		µg/kg		20.0		103	70-130		
cis-1,3-Dichloropropene	**17.1**		µg/kg		20.0		85	70-130		
trans-1,3-Dichloropropene	**17.9**		µg/kg		20.0		89	70-130		
Ethylbenzene	**20.1**		µg/kg		20.0		100	70-130		
Hexachlorobutadiene	**20.4**		µg/kg		20.0		102	70-130		
2-Hexanone (MBK)	**18.2**		µg/kg		20.0		91	70-130		
Isopropylbenzene	**19.4**		µg/kg		20.0		97	70-130		
4-Isopropyltoluene	**22.1**		µg/kg		20.0		111	70-130		
Methyl tert-butyl ether	**15.4**		µg/kg		20.0		77	70-130		
4-Methyl-2-pentanone (MIBK)	**18.2**		µg/kg		20.0		91	70-130		
Methylene chloride	**20.0**		µg/kg		20.0		100	70-130		
Naphthalene	**16.8**		µg/kg		20.0		84	70-130		
n-Propylbenzene	**20.4**		µg/kg		20.0		102	70-130		
Styrene	**18.9**		µg/kg		20.0		94	70-130		
1,1,1,2-Tetrachloroethane	**17.8**		µg/kg		20.0		89	70-130		
1,1,2,2-Tetrachloroethane	**19.3**		µg/kg		20.0		97	70-130		
Tetrachloroethene	**18.5**		µg/kg		20.0		92	70-130		
Toluene	**20.0**		µg/kg		20.0		100	70-130		
1,2,3-Trichlorobenzene	**21.1**		µg/kg		20.0		106	70-130		
1,2,4-Trichlorobenzene	**20.9**		µg/kg		20.0		104	70-130		
1,3,5-Trichlorobenzene	**22.6**		µg/kg		20.0		113	70-130		
1,1,1-Trichloroethane	**19.2**		µg/kg		20.0		96	70-130		
1,1,2-Trichloroethane	**20.2**		µg/kg		20.0		101	70-130		
Trichloroethene	**20.2**		µg/kg		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	**25.9**		µg/kg		20.0		130	70-130		
1,2,3-Trichloropropane	**19.5**		µg/kg		20.0		98	70-130		
1,2,4-Trimethylbenzene	**20.6**		µg/kg		20.0		103	70-130		
1,3,5-Trimethylbenzene	**20.2**		µg/kg		20.0		101	70-130		
Vinyl chloride	**25.7**		µg/kg		20.0		129	70-130		
m,p-Xylene	**18.5**		µg/kg		20.0		93	70-130		
o-Xylene	**19.4**		µg/kg		20.0		97	70-130		
Tetrahydrofuran	**18.9**		µg/kg		20.0		94	70-130		
Ethyl ether	**22.6**		µg/kg		20.0		113	70-130		
Tert-amyl methyl ether	**28.5**	QC2	µg/kg		20.0		142	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717197 - SW846 5035A Soil (low level)										
LCS (1717197-BS1)					Prepared & Analyzed: 10-Oct-17					
Ethyl tert-butyl ether	**17.2**		µg/kg		20.0		86	70-130		
Di-isopropyl ether	**22.0**		µg/kg		20.0		110	70-130		
Tert-Butanol / butyl alcohol	**164**		µg/kg		200		82	70-130		
1,4-Dioxane	**137**	QC2	µg/kg		200		68	70-130		
trans-1,4-Dichloro-2-butene	**14.5**		µg/kg		20.0		73	70-130		
Ethanol	**429**		µg/kg		400		107	70-130		
Surrogate: 4-Bromofluorobenzene	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.0*		µg/kg		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
LCS Dup (1717197-BSD1)					Prepared & Analyzed: 10-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.8**		µg/kg		20.0		104	70-130	0.6	30
Acetone	**25.7**		µg/kg		20.0		129	70-130	2	30
Acrylonitrile	**22.0**		µg/kg		20.0		110	70-130	4	30
Benzene	**20.7**		µg/kg		20.0		103	70-130	0.1	30
Bromobenzene	**18.0**		µg/kg		20.0		90	70-130	2	30
Bromochloromethane	**19.8**		µg/kg		20.0		99	70-130	1	30
Bromodichloromethane	**20.8**		µg/kg		20.0		104	70-130	1	30
Bromoform	**14.8**		µg/kg		20.0		74	70-130	1	30
Bromomethane	**22.8**		µg/kg		20.0		114	70-130	2	30
2-Butanone (MEK)	**18.4**		µg/kg		20.0		92	70-130	23	30
n-Butylbenzene	**22.1**		µg/kg		20.0		110	70-130	8	30
sec-Butylbenzene	**19.4**		µg/kg		20.0		97	70-130	1	30
tert-Butylbenzene	**18.4**		µg/kg		20.0		92	70-130	1	30
Carbon disulfide	**20.9**		µg/kg		20.0		104	70-130	0.1	30
Carbon tetrachloride	**19.0**		µg/kg		20.0		95	70-130	1	30
Chlorobenzene	**19.2**		µg/kg		20.0		96	70-130	0.8	30
Chloroethane	**23.2**		µg/kg		20.0		116	70-130	0.9	30
Chloroform	**21.6**		µg/kg		20.0		108	70-130	0.8	30
Chloromethane	**19.0**		µg/kg		20.0		95	70-130	22	30
2-Chlorotoluene	**19.2**		µg/kg		20.0		96	70-130	2	30
4-Chlorotoluene	**20.4**		µg/kg		20.0		102	70-130	2	30
1,2-Dibromo-3-chloropropane	**17.5**		µg/kg		20.0		88	70-130	2	30
Dibromochloromethane	**18.1**		µg/kg		20.0		90	70-130	0.1	30
1,2-Dibromoethane (EDB)	**19.1**		µg/kg		20.0		96	70-130	0.2	30
Dibromomethane	**21.7**		µg/kg		20.0		109	70-130	4	30
1,2-Dichlorobenzene	**19.9**		µg/kg		20.0		100	70-130	3	30
1,3-Dichlorobenzene	**18.6**		µg/kg		20.0		93	70-130	1	30
1,4-Dichlorobenzene	**19.8**		µg/kg		20.0		99	70-130	3	30
Dichlorodifluoromethane (Freon12)	**23.2**		µg/kg		20.0		116	70-130	6	30
1,1-Dichloroethane	**21.6**		µg/kg		20.0		108	70-130	0.1	30
1,2-Dichloroethane	**23.3**		µg/kg		20.0		116	70-130	1	30
1,1-Dichloroethene	**21.0**		µg/kg		20.0		105	70-130	2	30
cis-1,2-Dichloroethene	**19.9**		µg/kg		20.0		100	70-130	2	30
trans-1,2-Dichloroethene	**19.5**		µg/kg		20.0		98	70-130	2	30
1,2-Dichloropropane	**21.0**		µg/kg		20.0		105	70-130	2	30
1,3-Dichloropropane	**20.7**		µg/kg		20.0		104	70-130	2	30
2,2-Dichloropropane	**14.4**		µg/kg		20.0		72	70-130	2	30
1,1-Dichloropropene	**20.3**		µg/kg		20.0		102	70-130	1	30
cis-1,3-Dichloropropene	**17.0**		µg/kg		20.0		85	70-130	0.1	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717197 - SW846 5035A Soil (low level)										
LCS Dup (1717197-BSD1)					Prepared & Analyzed: 10-Oct-17					
trans-1,3-Dichloropropene	**16.1**		µg/kg		20.0		80	70-130	11	30
Ethylbenzene	**20.2**		µg/kg		20.0		101	70-130	0.6	30
Hexachlorobutadiene	**20.0**		µg/kg		20.0		100	70-130	2	30
2-Hexanone (MBK)	**18.2**		µg/kg		20.0		91	70-130	0.2	30
Isopropylbenzene	**19.7**		µg/kg		20.0		99	70-130	2	30
4-Isopropyltoluene	**20.9**		µg/kg		20.0		105	70-130	6	30
Methyl tert-butyl ether	**15.4**		µg/kg		20.0		77	70-130	0.06	30
4-Methyl-2-pentanone (MIBK)	**18.6**		µg/kg		20.0		93	70-130	2	30
Methylene chloride	**20.4**		µg/kg		20.0		102	70-130	2	30
Naphthalene	**15.5**		µg/kg		20.0		77	70-130	8	30
n-Propylbenzene	**19.8**		µg/kg		20.0		99	70-130	3	30
Styrene	**18.3**		µg/kg		20.0		92	70-130	3	30
1,1,1,2-Tetrachloroethane	**18.0**		µg/kg		20.0		90	70-130	0.9	30
1,1,2,2-Tetrachloroethane	**20.0**		µg/kg		20.0		100	70-130	3	30
Tetrachloroethene	**18.3**		µg/kg		20.0		92	70-130	0.8	30
Toluene	**20.1**		µg/kg		20.0		101	70-130	0.5	30
1,2,3-Trichlorobenzene	**21.0**		µg/kg		20.0		105	70-130	0.7	30
1,2,4-Trichlorobenzene	**20.2**		µg/kg		20.0		101	70-130	3	30
1,3,5-Trichlorobenzene	**21.8**		µg/kg		20.0		109	70-130	3	30
1,1,1-Trichloroethane	**19.2**		µg/kg		20.0		96	70-130	0.2	30
1,1,2-Trichloroethane	**20.5**		µg/kg		20.0		103	70-130	2	30
Trichloroethene	**20.5**		µg/kg		20.0		102	70-130	1	30
Trichlorofluoromethane (Freon 11)	**25.6**		µg/kg		20.0		128	70-130	1	30
1,2,3-Trichloropropane	**20.3**		µg/kg		20.0		102	70-130	4	30
1,2,4-Trimethylbenzene	**19.7**		µg/kg		20.0		98	70-130	4	30
1,3,5-Trimethylbenzene	**19.1**		µg/kg		20.0		96	70-130	5	30
Vinyl chloride	**23.1**		µg/kg		20.0		116	70-130	11	30
m,p-Xylene	**18.3**		µg/kg		20.0		92	70-130	1	30
o-Xylene	**19.2**		µg/kg		20.0		96	70-130	0.9	30
Tetrahydrofuran	**19.4**		µg/kg		20.0		97	70-130	3	30
Ethyl ether	**23.0**		µg/kg		20.0		115	70-130	1	30
Tert-amyl methyl ether	**28.5**	QC2	µg/kg		20.0		142	70-130	0	30
Ethyl tert-butyl ether	**17.0**		µg/kg		20.0		85	70-130	1	30
Di-isopropyl ether	**21.9**		µg/kg		20.0		110	70-130	0.6	30
Tert-Butanol / butyl alcohol	**160**		µg/kg		200		80	70-130	2	30
1,4-Dioxane	**136**	QC2	µg/kg		200		68	70-130	0.4	30
trans-1,4-Dichloro-2-butene	**12.6**	QM9	µg/kg		20.0		63	70-130	15	30
Ethanol	**419**		µg/kg		400		105	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: Toluene-d8	*49.1*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.1*		µg/kg		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*51.5*		µg/kg		*50.0*		*103*	*70-130*		
Batch 1717290 - SW846 5035A Soil (high level)										
Blank (1717290-BLK1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717290 - SW846 5035A Soil (high level)										
Blank (1717290-BLK1)					Prepared & Analyzed: 11-Oct-17					
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717290 - SW846 5035A Soil (high level)										
Blank (1717290-BLK1)					Prepared & Analyzed: 11-Oct-17					
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*46.7*		µg/kg		*50.0*		*93*	*70-130*		
Surrogate: Toluene-d8	*50.7*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.4*		µg/kg		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*53.2*		µg/kg		*50.0*		*106*	*70-130*		
LCS (1717290-BS1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**19.0**	D	µg/kg		20.0		95	70-130		
Acetone	**24.1**	D	µg/kg		20.0		120	70-130		
Acrylonitrile	**20.1**	D	µg/kg		20.0		101	70-130		
Benzene	**22.5**	D	µg/kg		20.0		112	70-130		
Bromobenzene	**22.2**	D	µg/kg		20.0		111	70-130		
Bromochloromethane	**22.0**	D	µg/kg		20.0		110	70-130		
Bromodichloromethane	**22.8**	D	µg/kg		20.0		114	70-130		
Bromoform	**23.9**	D	µg/kg		20.0		120	70-130		
Bromomethane	**27.8**	D	µg/kg		20.0		139	70-130		
2-Butanone (MEK)	**20.2**	D	µg/kg		20.0		101	70-130		
n-Butylbenzene	**20.3**	D	µg/kg		20.0		101	70-130		
sec-Butylbenzene	**20.6**	D	µg/kg		20.0		103	70-130		
tert-Butylbenzene	**20.9**	D	µg/kg		20.0		104	70-130		
Carbon disulfide	**22.0**	D	µg/kg		20.0		110	70-130		
Carbon tetrachloride	**19.9**	D	µg/kg		20.0		100	70-130		
Chlorobenzene	**22.1**	D	µg/kg		20.0		110	70-130		
Chloroethane	**24.9**	D	µg/kg		20.0		124	70-130		
Chloroform	**23.0**	D	µg/kg		20.0		115	70-130		
Chloromethane	**20.4**	D	µg/kg		20.0		102	70-130		
2-Chlorotoluene	**22.6**	D	µg/kg		20.0		113	70-130		
4-Chlorotoluene	**22.4**	D	µg/kg		20.0		112	70-130		
1,2-Dibromo-3-chloropropane	**22.9**	D	µg/kg		20.0		114	70-130		
Dibromochloromethane	**23.3**	D	µg/kg		20.0		116	70-130		
1,2-Dibromoethane (EDB)	**21.5**	D	µg/kg		20.0		108	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717290 - SW846 5035A Soil (high level)										
LCS (1717290-BS1)					Prepared & Analyzed: 11-Oct-17					
Dibromomethane	**23.4**	D	µg/kg		20.0		117	70-130		
1,2-Dichlorobenzene	**22.2**	D	µg/kg		20.0		111	70-130		
1,3-Dichlorobenzene	**22.2**	D	µg/kg		20.0		111	70-130		
1,4-Dichlorobenzene	**21.7**	D	µg/kg		20.0		108	70-130		
Dichlorodifluoromethane (Freon12)	**20.5**	D	µg/kg		20.0		102	70-130		
1,1-Dichloroethane	**22.7**	D	µg/kg		20.0		113	70-130		
1,2-Dichloroethane	**22.9**	D	µg/kg		20.0		114	70-130		
1,1-Dichloroethene	**21.4**	D	µg/kg		20.0		107	70-130		
cis-1,2-Dichloroethene	**22.6**	D	µg/kg		20.0		113	70-130		
trans-1,2-Dichloroethene	**21.2**	D	µg/kg		20.0		106	70-130		
1,2-Dichloropropane	**22.8**	D	µg/kg		20.0		114	70-130		
1,3-Dichloropropane	**23.2**	D	µg/kg		20.0		116	70-130		
2,2-Dichloropropane	**23.2**	D	µg/kg		20.0		116	70-130		
1,1-Dichloropropene	**20.2**	D	µg/kg		20.0		101	70-130		
cis-1,3-Dichloropropene	**20.8**	D	µg/kg		20.0		104	70-130		
trans-1,3-Dichloropropene	**20.9**	D	µg/kg		20.0		105	70-130		
Ethylbenzene	**21.9**	D	µg/kg		20.0		110	70-130		
Hexachlorobutadiene	**19.4**	D	µg/kg		20.0		97	70-130		
2-Hexanone (MBK)	**20.8**	D	µg/kg		20.0		104	70-130		
Isopropylbenzene	**21.2**	D	µg/kg		20.0		106	70-130		
4-Isopropyltoluene	**20.9**	D	µg/kg		20.0		104	70-130		
Methyl tert-butyl ether	**22.0**	D	µg/kg		20.0		110	70-130		
4-Methyl-2-pentanone (MIBK)	**21.3**	D	µg/kg		20.0		106	70-130		
Methylene chloride	**22.1**	D	µg/kg		20.0		111	70-130		
Naphthalene	**20.5**	D	µg/kg		20.0		103	70-130		
n-Propylbenzene	**21.3**	D	µg/kg		20.0		107	70-130		
Styrene	**20.8**	D	µg/kg		20.0		104	70-130		
1,1,1,2-Tetrachloroethane	**21.9**	D	µg/kg		20.0		109	70-130		
1,1,2,2-Tetrachloroethane	**22.8**	D	µg/kg		20.0		114	70-130		
Tetrachloroethene	**19.2**	D	µg/kg		20.0		96	70-130		
Toluene	**21.6**	D	µg/kg		20.0		108	70-130		
1,2,3-Trichlorobenzene	**21.0**	D	µg/kg		20.0		105	70-130		
1,2,4-Trichlorobenzene	**19.4**	D	µg/kg		20.0		97	70-130		
1,3,5-Trichlorobenzene	**20.9**	D	µg/kg		20.0		105	70-130		
1,1,1-Trichloroethane	**21.2**	D	µg/kg		20.0		106	70-130		
1,1,2-Trichloroethane	**23.6**	D	µg/kg		20.0		118	70-130		
Trichloroethene	**20.9**	D	µg/kg		20.0		104	70-130		
Trichlorofluoromethane (Freon 11)	**23.1**	D	µg/kg		20.0		115	70-130		
1,2,3-Trichloropropane	**23.9**	D	µg/kg		20.0		120	70-130		
1,2,4-Trimethylbenzene	**22.2**	D	µg/kg		20.0		111	70-130		
1,3,5-Trimethylbenzene	**21.7**	D	µg/kg		20.0		109	70-130		
Vinyl chloride	**25.9**	D	µg/kg		20.0		130	70-130		
m,p-Xylene	**21.9**	D	µg/kg		20.0		110	70-130		
o-Xylene	**23.3**	D	µg/kg		20.0		116	70-130		
Tetrahydrofuran	**22.3**	D	µg/kg		20.0		112	70-130		
Ethyl ether	**25.2**	D	µg/kg		20.0		126	70-130		
Tert-amyl methyl ether	**24.5**	D	µg/kg		20.0		122	70-130		
Ethyl tert-butyl ether	**22.5**	D	µg/kg		20.0		112	70-130		
Di-isopropyl ether	**22.0**	D	µg/kg		20.0		110	70-130		
Tert-Butanol / butyl alcohol	**215**	D	µg/kg		200		108	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717290 - SW846 5035A Soil (high level)										
LCS (1717290-BS1)					Prepared & Analyzed: 11-Oct-17					
1,4-Dioxane	**192**	D	µg/kg		200		96	70-130		
trans-1,4-Dichloro-2-butene	**19.1**	D	µg/kg		20.0		96	70-130		
Ethanol	**403**	D	µg/kg		400		101	70-130		
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.4*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*52.0*		µg/kg		*50.0*		*104*	*70-130*		
LCS Dup (1717290-BSD1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.2**	D	µg/kg		20.0		91	70-130	4	30
Acetone	**23.8**	D	µg/kg		20.0		119	70-130	1	30
Acrylonitrile	**22.2**	D	µg/kg		20.0		111	70-130	10	30
Benzene	**21.9**	D	µg/kg		20.0		110	70-130	2	30
Bromobenzene	**21.1**	D	µg/kg		20.0		106	70-130	5	30
Bromochloromethane	**21.2**	D	µg/kg		20.0		106	70-130	4	30
Bromodichloromethane	**22.7**	D	µg/kg		20.0		114	70-130	0.1	30
Bromoform	**23.6**	D	µg/kg		20.0		118	70-130	1	30
Bromomethane	**29.7**	D	µg/kg		20.0		149	70-130	7	30
2-Butanone (MEK)	**21.0**	D	µg/kg		20.0		105	70-130	4	30
n-Butylbenzene	**19.7**	D	µg/kg		20.0		99	70-130	3	30
sec-Butylbenzene	**19.8**	D	µg/kg		20.0		99	70-130	4	30
tert-Butylbenzene	**19.9**	D	µg/kg		20.0		99	70-130	5	30
Carbon disulfide	**21.2**	D	µg/kg		20.0		106	70-130	4	30
Carbon tetrachloride	**19.2**	D	µg/kg		20.0		96	70-130	4	30
Chlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130	3	30
Chloroethane	**24.3**	D	µg/kg		20.0		121	70-130	2	30
Chloroform	**22.6**	D	µg/kg		20.0		113	70-130	2	30
Chloromethane	**19.6**	D	µg/kg		20.0		98	70-130	4	30
2-Chlorotoluene	**21.5**	D	µg/kg		20.0		107	70-130	5	30
4-Chlorotoluene	**21.5**	D	µg/kg		20.0		107	70-130	4	30
1,2-Dibromo-3-chloropropane	**22.6**	D	µg/kg		20.0		113	70-130	1	30
Dibromochloromethane	**22.7**	D	µg/kg		20.0		113	70-130	3	30
1,2-Dibromoethane (EDB)	**21.3**	D	µg/kg		20.0		106	70-130	1	30
Dibromomethane	**23.2**	D	µg/kg		20.0		116	70-130	0.8	30
1,2-Dichlorobenzene	**21.7**	D	µg/kg		20.0		108	70-130	3	30
1,3-Dichlorobenzene	**20.9**	D	µg/kg		20.0		104	70-130	6	30
1,4-Dichlorobenzene	**21.0**	D	µg/kg		20.0		105	70-130	3	30
Dichlorodifluoromethane (Freon12)	**20.1**	D	µg/kg		20.0		100	70-130	2	30
1,1-Dichloroethane	**22.3**	D	µg/kg		20.0		111	70-130	2	30
1,2-Dichloroethane	**23.2**	D	µg/kg		20.0		116	70-130	1	30
1,1-Dichloroethene	**20.1**	D	µg/kg		20.0		101	70-130	6	30
cis-1,2-Dichloroethene	**22.2**	D	µg/kg		20.0		111	70-130	2	30
trans-1,2-Dichloroethene	**20.5**	D	µg/kg		20.0		102	70-130	3	30
1,2-Dichloropropane	**22.6**	D	µg/kg		20.0		113	70-130	1	30
1,3-Dichloropropane	**23.1**	D	µg/kg		20.0		116	70-130	0.6	30
2,2-Dichloropropane	**21.9**	D	µg/kg		20.0		109	70-130	6	30
1,1-Dichloropropene	**19.6**	D	µg/kg		20.0		98	70-130	3	30
cis-1,3-Dichloropropene	**20.8**	D	µg/kg		20.0		104	70-130	0.4	30
trans-1,3-Dichloropropene	**20.7**	D	µg/kg		20.0		104	70-130	1	30
Ethylbenzene	**21.2**	D	µg/kg		20.0		106	70-130	4	30
Hexachlorobutadiene	**18.6**	D	µg/kg		20.0		93	70-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717290 - SW846 5035A Soil (high level)										
LCS Dup (1717290-BSD1)					Prepared & Analyzed: 11-Oct-17					
2-Hexanone (MBK)	**20.6**	D	µg/kg		20.0		103	70-130	0.7	30
Isopropylbenzene	**20.4**	D	µg/kg		20.0		102	70-130	4	30
4-Isopropyltoluene	**20.5**	D	µg/kg		20.0		103	70-130	2	30
Methyl tert-butyl ether	**22.1**	D	µg/kg		20.0		110	70-130	0.3	30
4-Methyl-2-pentanone (MIBK)	**21.5**	D	µg/kg		20.0		108	70-130	1	30
Methylene chloride	**21.8**	D	µg/kg		20.0		109	70-130	2	30
Naphthalene	**19.8**	D	µg/kg		20.0		99	70-130	3	30
n-Propylbenzene	**20.3**	D	µg/kg		20.0		101	70-130	5	30
Styrene	**20.3**	D	µg/kg		20.0		102	70-130	2	30
1,1,1,2-Tetrachloroethane	**21.4**	D	µg/kg		20.0		107	70-130	2	30
1,1,2,2-Tetrachloroethane	**22.4**	D	µg/kg		20.0		112	70-130	2	30
Tetrachloroethene	**18.3**	D	µg/kg		20.0		91	70-130	5	30
Toluene	**20.7**	D	µg/kg		20.0		104	70-130	4	30
1,2,3-Trichlorobenzene	**20.1**	D	µg/kg		20.0		100	70-130	4	30
1,2,4-Trichlorobenzene	**18.5**	D	µg/kg		20.0		92	70-130	5	30
1,3,5-Trichlorobenzene	**20.1**	D	µg/kg		20.0		100	70-130	4	30
1,1,1-Trichloroethane	**20.5**	D	µg/kg		20.0		103	70-130	3	30
1,1,2-Trichloroethane	**23.3**	D	µg/kg		20.0		117	70-130	1	30
Trichloroethene	**20.9**	D	µg/kg		20.0		104	70-130	0.1	30
Trichlorofluoromethane (Freon 11)	**22.0**	D	µg/kg		20.0		110	70-130	5	30
1,2,3-Trichloropropane	**23.9**	D	µg/kg		20.0		119	70-130	0.2	30
1,2,4-Trimethylbenzene	**21.1**	D	µg/kg		20.0		106	70-130	5	30
1,3,5-Trimethylbenzene	**20.7**	D	µg/kg		20.0		103	70-130	5	30
Vinyl chloride	**24.8**	D	µg/kg		20.0		124	70-130	4	30
m,p-Xylene	**21.1**	D	µg/kg		20.0		106	70-130	4	30
o-Xylene	**22.2**	D	µg/kg		20.0		111	70-130	5	30
Tetrahydrofuran	**22.8**	D	µg/kg		20.0		114	70-130	2	30
Ethyl ether	**24.9**	D	µg/kg		20.0		124	70-130	1	30
Tert-amyl methyl ether	**24.5**	D	µg/kg		20.0		122	70-130	0.04	30
Ethyl tert-butyl ether	**22.6**	D	µg/kg		20.0		113	70-130	0.5	30
Di-isopropyl ether	**22.1**	D	µg/kg		20.0		111	70-130	0.3	30
Tert-Butanol / butyl alcohol	**220**	D	µg/kg		200		110	70-130	2	30
1,4-Dioxane	**187**	D	µg/kg		200		93	70-130	3	30
trans-1,4-Dichloro-2-butene	**19.4**	D	µg/kg		20.0		97	70-130	1	30
Ethanol	**402**	D	µg/kg		400		100	70-130	0.2	30
Surrogate: 4-Bromofluorobenzene	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.9*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	*51.8*		µg/kg		*50.0*		*104*	*70-130*		
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)					Prepared & Analyzed: 11-Oct-17					
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*48.1*		µg/kg		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*47.5*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*63.9*		µg/kg		*50.0*		*128*	*70-130*		
Surrogate: Dibromofluoromethane	*48.8*		µg/kg		*50.0*		*98*	*70-130*		
LCS (1717293-BS1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.2**		µg/kg		20.0		81	70-130		
Acetone	**25.9**		µg/kg		20.0		130	70-130		
Acrylonitrile	**21.7**		µg/kg		20.0		109	70-130		
Benzene	**19.6**		µg/kg		20.0		98	70-130		
Bromobenzene	**18.3**		µg/kg		20.0		92	70-130		
Bromochloromethane	**18.8**		µg/kg		20.0		94	70-130		
Bromodichloromethane	**19.3**		µg/kg		20.0		97	70-130		
Bromoform	**14.0**		µg/kg		20.0		70	70-130		
Bromomethane	**22.8**		µg/kg		20.0		114	70-130		
2-Butanone (MEK)	**18.5**		µg/kg		20.0		93	70-130		
n-Butylbenzene	**21.4**		µg/kg		20.0		107	70-130		
sec-Butylbenzene	**18.0**		µg/kg		20.0		90	70-130		
tert-Butylbenzene	**17.5**		µg/kg		20.0		87	70-130		
Carbon disulfide	**17.9**		µg/kg		20.0		90	70-130		
Carbon tetrachloride	**15.0**		µg/kg		20.0		75	70-130		
Chlorobenzene	**18.7**		µg/kg		20.0		94	70-130		
Chloroethane	**24.6**		µg/kg		20.0		123	70-130		
Chloroform	**19.8**		µg/kg		20.0		99	70-130		
Chloromethane	**23.3**		µg/kg		20.0		117	70-130		
2-Chlorotoluene	**19.2**		µg/kg		20.0		96	70-130		
4-Chlorotoluene	**20.6**		µg/kg		20.0		103	70-130		
1,2-Dibromo-3-chloropropane	**16.7**		µg/kg		20.0		83	70-130		
Dibromochloromethane	**16.8**		µg/kg		20.0		84	70-130		
1,2-Dibromoethane (EDB)	**18.7**		µg/kg		20.0		93	70-130		
Dibromomethane	**20.3**		µg/kg		20.0		101	70-130		
1,2-Dichlorobenzene	**20.4**		µg/kg		20.0		102	70-130		
1,3-Dichlorobenzene	**18.6**		µg/kg		20.0		93	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS (1717293-BS1)					Prepared & Analyzed: 11-Oct-17					
1,4-Dichlorobenzene	**20.1**		µg/kg		20.0		101	70-130		
Dichlorodifluoromethane (Freon12)	**17.5**		µg/kg		20.0		88	70-130		
1,1-Dichloroethane	**20.2**		µg/kg		20.0		101	70-130		
1,2-Dichloroethane	**21.9**		µg/kg		20.0		109	70-130		
1,1-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130		
cis-1,2-Dichloroethene	**19.3**		µg/kg		20.0		96	70-130		
trans-1,2-Dichloroethene	**18.5**		µg/kg		20.0		92	70-130		
1,2-Dichloropropane	**20.4**		µg/kg		20.0		102	70-130		
1,3-Dichloropropane	**20.2**		µg/kg		20.0		101	70-130		
2,2-Dichloropropane	**12.6**	QC2	µg/kg		20.0		63	70-130		
1,1-Dichloropropene	**18.0**		µg/kg		20.0		90	70-130		
cis-1,3-Dichloropropene	**16.7**		µg/kg		20.0		83	70-130		
trans-1,3-Dichloropropene	**15.6**		µg/kg		20.0		78	70-130		
Ethylbenzene	**19.2**		µg/kg		20.0		96	70-130		
Hexachlorobutadiene	**17.7**		µg/kg		20.0		89	70-130		
2-Hexanone (MBK)	**17.3**		µg/kg		20.0		87	70-130		
Isopropylbenzene	**18.1**		µg/kg		20.0		91	70-130		
4-Isopropyltoluene	**20.2**		µg/kg		20.0		101	70-130		
Methyl tert-butyl ether	**15.9**		µg/kg		20.0		80	70-130		
4-Methyl-2-pentanone (MIBK)	**17.4**		µg/kg		20.0		87	70-130		
Methylene chloride	**19.4**		µg/kg		20.0		97	70-130		
Naphthalene	**19.7**		µg/kg		20.0		99	70-130		
n-Propylbenzene	**19.2**		µg/kg		20.0		96	70-130		
Styrene	**18.9**		µg/kg		20.0		94	70-130		
1,1,1,2-Tetrachloroethane	**17.1**		µg/kg		20.0		86	70-130		
1,1,2,2-Tetrachloroethane	**19.2**		µg/kg		20.0		96	70-130		
Tetrachloroethene	**16.3**		µg/kg		20.0		81	70-130		
Toluene	**18.9**		µg/kg		20.0		94	70-130		
1,2,3-Trichlorobenzene	**21.7**		µg/kg		20.0		109	70-130		
1,2,4-Trichlorobenzene	**21.2**		µg/kg		20.0		106	70-130		
1,3,5-Trichlorobenzene	**21.8**		µg/kg		20.0		109	70-130		
1,1,1-Trichloroethane	**16.5**		µg/kg		20.0		82	70-130		
1,1,2-Trichloroethane	**19.7**		µg/kg		20.0		99	70-130		
Trichloroethene	**18.6**		µg/kg		20.0		93	70-130		
Trichlorofluoromethane (Freon 11)	**20.8**		µg/kg		20.0		104	70-130		
1,2,3-Trichloropropane	**19.8**		µg/kg		20.0		99	70-130		
1,2,4-Trimethylbenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.0**		µg/kg		20.0		95	70-130		
Vinyl chloride	**24.7**		µg/kg		20.0		123	70-130		
m,p-Xylene	**18.0**		µg/kg		20.0		90	70-130		
o-Xylene	**18.9**		µg/kg		20.0		95	70-130		
Tetrahydrofuran	**17.3**		µg/kg		20.0		87	70-130		
Ethyl ether	**24.0**		µg/kg		20.0		120	70-130		
Tert-amyl methyl ether	**24.8**		µg/kg		20.0		124	70-130		
Ethyl tert-butyl ether	**17.3**		µg/kg		20.0		87	70-130		
Di-isopropyl ether	**21.9**		µg/kg		20.0		109	70-130		
Tert-Butanol / butyl alcohol	**164**		µg/kg		200		82	70-130		
1,4-Dioxane	**167**		µg/kg		200		83	70-130		
trans-1,4-Dichloro-2-butene	**12.2**	QC2	µg/kg		20.0		61	70-130		
Ethanol	**428**		µg/kg		400		107	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS (1717293-BS1)					Prepared & Analyzed: 11-Oct-17					
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.6*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.7*		µg/kg		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*49.4*		µg/kg		*50.0*		*99*	*70-130*		
LCS Dup (1717293-BSD1)					Prepared & Analyzed: 11-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.1**		µg/kg		20.0		80	70-130	0.9	30
Acetone	**24.8**		µg/kg		20.0		124	70-130	4	30
Acrylonitrile	**21.6**		µg/kg		20.0		108	70-130	0.6	30
Benzene	**19.6**		µg/kg		20.0		98	70-130	0.4	30
Bromobenzene	**18.1**		µg/kg		20.0		90	70-130	1	30
Bromochloromethane	**18.6**		µg/kg		20.0		93	70-130	0.9	30
Bromodichloromethane	**19.6**		µg/kg		20.0		98	70-130	1	30
Bromoform	**13.8**	QM9	µg/kg		20.0		69	70-130	2	30
Bromomethane	**24.3**		µg/kg		20.0		122	70-130	7	30
2-Butanone (MEK)	**19.2**		µg/kg		20.0		96	70-130	4	30
n-Butylbenzene	**21.8**		µg/kg		20.0		109	70-130	2	30
sec-Butylbenzene	**17.8**		µg/kg		20.0		89	70-130	1	30
tert-Butylbenzene	**17.4**		µg/kg		20.0		87	70-130	0.5	30
Carbon disulfide	**18.0**		µg/kg		20.0		90	70-130	0.5	30
Carbon tetrachloride	**15.2**		µg/kg		20.0		76	70-130	2	30
Chlorobenzene	**18.7**		µg/kg		20.0		93	70-130	0.1	30
Chloroethane	**24.4**		µg/kg		20.0		122	70-130	0.6	30
Chloroform	**20.0**		µg/kg		20.0		100	70-130	1	30
Chloromethane	**22.9**		µg/kg		20.0		114	70-130	2	30
2-Chlorotoluene	**19.4**		µg/kg		20.0		97	70-130	0.8	30
4-Chlorotoluene	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2-Dibromo-3-chloropropane	**15.5**		µg/kg		20.0		78	70-130	7	30
Dibromochloromethane	**17.0**		µg/kg		20.0		85	70-130	1	30
1,2-Dibromoethane (EDB)	**18.8**		µg/kg		20.0		94	70-130	0.9	30
Dibromomethane	**20.7**		µg/kg		20.0		104	70-130	2	30
1,2-Dichlorobenzene	**20.5**		µg/kg		20.0		103	70-130	0.5	30
1,3-Dichlorobenzene	**18.5**		µg/kg		20.0		92	70-130	0.8	30
1,4-Dichlorobenzene	**20.6**		µg/kg		20.0		103	70-130	2	30
Dichlorodifluoromethane (Freon12)	**16.7**		µg/kg		20.0		84	70-130	5	30
1,1-Dichloroethane	**20.4**		µg/kg		20.0		102	70-130	1	30
1,2-Dichloroethane	**21.9**		µg/kg		20.0		110	70-130	0.1	30
1,1-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130	0.5	30
cis-1,2-Dichloroethene	**19.5**		µg/kg		20.0		98	70-130	1	30
trans-1,2-Dichloroethene	**18.5**		µg/kg		20.0		92	70-130	0.05	30
1,2-Dichloropropane	**20.5**		µg/kg		20.0		102	70-130	0.4	30
1,3-Dichloropropane	**20.0**		µg/kg		20.0		100	70-130	0.8	30
2,2-Dichloropropane	**12.8**	QC2	µg/kg		20.0		64	70-130	1	30
1,1-Dichloropropene	**18.5**		µg/kg		20.0		92	70-130	2	30
cis-1,3-Dichloropropene	**17.1**		µg/kg		20.0		86	70-130	3	30
trans-1,3-Dichloropropene	**15.8**		µg/kg		20.0		79	70-130	0.8	30
Ethylbenzene	**19.1**		µg/kg		20.0		95	70-130	0.5	30
Hexachlorobutadiene	**18.0**		µg/kg		20.0		90	70-130	1	30
2-Hexanone (MBK)	**14.4**		µg/kg		20.0		72	70-130	18	30
Isopropylbenzene	**18.0**		µg/kg		20.0		90	70-130	0.8	30
4-Isopropyltoluene	**20.8**		µg/kg		20.0		104	70-130	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717293 - SW846 5035A Soil (low level)										
LCS Dup (1717293-BSD1)					Prepared & Analyzed: 11-Oct-17					
Methyl tert-butyl ether	**15.8**		µg/kg		20.0		79	70-130	0.9	30
4-Methyl-2-pentanone (MIBK)	**16.4**		µg/kg		20.0		82	70-130	5	30
Methylene chloride	**19.4**		µg/kg		20.0		97	70-130	0.3	30
Naphthalene	**19.6**		µg/kg		20.0		98	70-130	0.6	30
n-Propylbenzene	**19.3**		µg/kg		20.0		96	70-130	0.2	30
Styrene	**19.2**		µg/kg		20.0		96	70-130	1	30
1,1,1,2-Tetrachloroethane	**17.2**		µg/kg		20.0		86	70-130	0.3	30
1,1,2,2-Tetrachloroethane	**18.9**		µg/kg		20.0		95	70-130	2	30
Tetrachloroethene	**16.2**		µg/kg		20.0		81	70-130	0.8	30
Toluene	**18.9**		µg/kg		20.0		95	70-130	0.2	30
1,2,3-Trichlorobenzene	**21.5**		µg/kg		20.0		108	70-130	1	30
1,2,4-Trichlorobenzene	**21.3**		µg/kg		20.0		106	70-130	0.2	30
1,3,5-Trichlorobenzene	**22.2**		µg/kg		20.0		111	70-130	2	30
1,1,1-Trichloroethane	**16.6**		µg/kg		20.0		83	70-130	1	30
1,1,2-Trichloroethane	**19.7**		µg/kg		20.0		99	70-130	0	30
Trichloroethene	**18.5**		µg/kg		20.0		92	70-130	0.9	30
Trichlorofluoromethane (Freon 11)	**21.1**		µg/kg		20.0		105	70-130	1	30
1,2,3-Trichloropropane	**19.6**		µg/kg		20.0		98	70-130	1	30
1,2,4-Trimethylbenzene	**20.0**		µg/kg		20.0		100	70-130	2	30
1,3,5-Trimethylbenzene	**19.1**		µg/kg		20.0		95	70-130	0.7	30
Vinyl chloride	**25.4**		µg/kg		20.0		127	70-130	3	30
m,p-Xylene	**18.0**		µg/kg		20.0		90	70-130	0.1	30
o-Xylene	**18.9**		µg/kg		20.0		95	70-130	0.2	30
Tetrahydrofuran	**16.2**		µg/kg		20.0		81	70-130	7	30
Ethyl ether	**24.1**		µg/kg		20.0		121	70-130	0.7	30
Tert-amyl methyl ether	**25.5**		µg/kg		20.0		127	70-130	3	30
Ethyl tert-butyl ether	**17.3**		µg/kg		20.0		86	70-130	0.2	30
Di-isopropyl ether	**21.7**		µg/kg		20.0		109	70-130	0.6	30
Tert-Butanol / butyl alcohol	**160**		µg/kg		200		80	70-130	2	30
1,4-Dioxane	**151**		µg/kg		200		75	70-130	10	30
trans-1,4-Dichloro-2-butene	**12.1**	QC2	µg/kg		20.0		60	70-130	1	30
Ethanol	**421**		µg/kg		400		105	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.8*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.4*		µg/kg		*50.0*		*111*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/kg		*50.0*		*100*	*70-130*		
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)					Prepared & Analyzed: 12-Oct-17					
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*46.2*		µg/kg		*50.0*		*92*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*64.9*		µg/kg		*50.0*		*130*	*70-130*		
Surrogate: Dibromofluoromethane	*50.9*		µg/kg		*50.0*		*102*	*70-130*		
LCS (1717335-BS1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.2**		µg/kg		20.0		91	70-130		
Acetone	**26.2**		µg/kg		20.0		131	70-130		
Acrylonitrile	**20.6**		µg/kg		20.0		103	70-130		
Benzene	**19.7**		µg/kg		20.0		99	70-130		
Bromobenzene	**17.3**		µg/kg		20.0		86	70-130		
Bromochloromethane	**18.5**		µg/kg		20.0		92	70-130		
Bromodichloromethane	**19.7**		µg/kg		20.0		99	70-130		
Bromoform	**13.8**	QM9	µg/kg		20.0		69	70-130		
Bromomethane	**22.7**		µg/kg		20.0		113	70-130		
2-Butanone (MEK)	**20.0**		µg/kg		20.0		100	70-130		
n-Butylbenzene	**21.4**		µg/kg		20.0		107	70-130		
sec-Butylbenzene	**17.8**		µg/kg		20.0		89	70-130		
tert-Butylbenzene	**17.2**		µg/kg		20.0		86	70-130		
Carbon disulfide	**18.9**		µg/kg		20.0		95	70-130		
Carbon tetrachloride	**16.8**		µg/kg		20.0		84	70-130		
Chlorobenzene	**18.4**		µg/kg		20.0		92	70-130		
Chloroethane	**23.0**		µg/kg		20.0		115	70-130		
Chloroform	**20.1**		µg/kg		20.0		100	70-130		
Chloromethane	**22.0**		µg/kg		20.0		110	70-130		
2-Chlorotoluene	**18.4**		µg/kg		20.0		92	70-130		
4-Chlorotoluene	**19.5**		µg/kg		20.0		98	70-130		
1,2-Dibromo-3-chloropropane	**16.0**		µg/kg		20.0		80	70-130		
Dibromochloromethane	**17.2**		µg/kg		20.0		86	70-130		
1,2-Dibromoethane (EDB)	**18.4**		µg/kg		20.0		92	70-130		
Dibromomethane	**20.5**		µg/kg		20.0		102	70-130		
1,2-Dichlorobenzene	**19.5**		µg/kg		20.0		97	70-130		
1,3-Dichlorobenzene	**17.5**		µg/kg		20.0		87	70-130		
1,4-Dichlorobenzene	**19.3**		µg/kg		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	**19.4**		µg/kg		20.0		97	70-130		
1,1-Dichloroethane	**20.6**		µg/kg		20.0		103	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS (1717335-BS1)					Prepared & Analyzed: 12-Oct-17					
1,2-Dichloroethane	**21.8**		µg/kg		20.0		109	70-130		
1,1-Dichloroethene	**20.5**		µg/kg		20.0		103	70-130		
cis-1,2-Dichloroethene	**19.4**		µg/kg		20.0		97	70-130		
trans-1,2-Dichloroethene	**18.3**		µg/kg		20.0		92	70-130		
1,2-Dichloropropane	**20.1**		µg/kg		20.0		100	70-130		
1,3-Dichloropropane	**19.6**		µg/kg		20.0		98	70-130		
2,2-Dichloropropane	**12.8**	QC2	µg/kg		20.0		64	70-130		
1,1-Dichloropropene	**18.6**		µg/kg		20.0		93	70-130		
cis-1,3-Dichloropropene	**16.1**		µg/kg		20.0		80	70-130		
trans-1,3-Dichloropropene	**15.0**		µg/kg		20.0		75	70-130		
Ethylbenzene	**18.7**		µg/kg		20.0		93	70-130		
Hexachlorobutadiene	**18.0**		µg/kg		20.0		90	70-130		
2-Hexanone (MBK)	**17.7**		µg/kg		20.0		89	70-130		
Isopropylbenzene	**18.1**		µg/kg		20.0		91	70-130		
4-Isopropyltoluene	**20.4**		µg/kg		20.0		102	70-130		
Methyl tert-butyl ether	**15.2**		µg/kg		20.0		76	70-130		
4-Methyl-2-pentanone (MIBK)	**17.4**		µg/kg		20.0		87	70-130		
Methylene chloride	**20.0**		µg/kg		20.0		100	70-130		
Naphthalene	**15.1**		µg/kg		20.0		75	70-130		
n-Propylbenzene	**18.3**		µg/kg		20.0		91	70-130		
Styrene	**17.4**		µg/kg		20.0		87	70-130		
1,1,1,2-Tetrachloroethane	**17.0**		µg/kg		20.0		85	70-130		
1,1,2,2-Tetrachloroethane	**19.3**		µg/kg		20.0		96	70-130		
Tetrachloroethene	**16.6**		µg/kg		20.0		83	70-130		
Toluene	**18.7**		µg/kg		20.0		94	70-130		
1,2,3-Trichlorobenzene	**19.9**		µg/kg		20.0		99	70-130		
1,2,4-Trichlorobenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3,5-Trichlorobenzene	**20.9**		µg/kg		20.0		104	70-130		
1,1,1-Trichloroethane	**17.4**		µg/kg		20.0		87	70-130		
1,1,2-Trichloroethane	**19.3**		µg/kg		20.0		97	70-130		
Trichloroethene	**19.0**		µg/kg		20.0		95	70-130		
Trichlorofluoromethane (Freon 11)	**23.9**		µg/kg		20.0		119	70-130		
1,2,3-Trichloropropane	**19.3**		µg/kg		20.0		97	70-130		
1,2,4-Trimethylbenzene	**19.1**		µg/kg		20.0		96	70-130		
1,3,5-Trimethylbenzene	**18.6**		µg/kg		20.0		93	70-130		
Vinyl chloride	**25.5**		µg/kg		20.0		127	70-130		
m,p-Xylene	**17.4**		µg/kg		20.0		87	70-130		
o-Xylene	**18.3**		µg/kg		20.0		91	70-130		
Tetrahydrofuran	**16.7**		µg/kg		20.0		83	70-130		
Ethyl ether	**23.3**		µg/kg		20.0		116	70-130		
Tert-amyl methyl ether	**26.6**	QC2	µg/kg		20.0		133	70-130		
Ethyl tert-butyl ether	**16.5**		µg/kg		20.0		83	70-130		
Di-isopropyl ether	**21.1**		µg/kg		20.0		105	70-130		
Tert-Butanol / butyl alcohol	**153**		µg/kg		200		77	70-130		
1,4-Dioxane	**145**		µg/kg		200		73	70-130		
trans-1,4-Dichloro-2-butene	**12.3**	QC2	µg/kg		20.0		62	70-130		
Ethanol	**428**		µg/kg		400		107	70-130		
Surrogate: 4-Bromofluorobenzene	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*48.3*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.6*		µg/kg		*50.0*		*111*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS (1717335-BS1)					Prepared & Analyzed: 12-Oct-17					
Surrogate: Dibromofluoromethane	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
LCS Dup (1717335-BSD1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.8**		µg/kg		20.0		89	70-130	2	30
Acetone	**25.6**		µg/kg		20.0		128	70-130	2	30
Acrylonitrile	**21.3**		µg/kg		20.0		106	70-130	3	30
Benzene	**19.5**		µg/kg		20.0		98	70-130	1	30
Bromobenzene	**17.5**		µg/kg		20.0		88	70-130	1	30
Bromochloromethane	**18.4**		µg/kg		20.0		92	70-130	0.5	30
Bromodichloromethane	**19.6**		µg/kg		20.0		98	70-130	0.8	30
Bromoform	**14.2**		µg/kg		20.0		71	70-130	3	30
Bromomethane	**21.7**		µg/kg		20.0		109	70-130	4	30
2-Butanone (MEK)	**15.1**		µg/kg		20.0		75	70-130	28	30
n-Butylbenzene	**21.6**		µg/kg		20.0		108	70-130	1	30
sec-Butylbenzene	**17.6**		µg/kg		20.0		88	70-130	1	30
tert-Butylbenzene	**16.9**		µg/kg		20.0		84	70-130	2	30
Carbon disulfide	**18.5**		µg/kg		20.0		92	70-130	2	30
Carbon tetrachloride	**17.0**		µg/kg		20.0		85	70-130	1	30
Chlorobenzene	**18.2**		µg/kg		20.0		91	70-130	1	30
Chloroethane	**24.6**		µg/kg		20.0		123	70-130	7	30
Chloroform	**20.0**		µg/kg		20.0		100	70-130	0.4	30
Chloromethane	**22.4**		µg/kg		20.0		112	70-130	2	30
2-Chlorotoluene	**19.0**		µg/kg		20.0		95	70-130	3	30
4-Chlorotoluene	**19.3**		µg/kg		20.0		96	70-130	1	30
1,2-Dibromo-3-chloropropane	**16.8**		µg/kg		20.0		84	70-130	5	30
Dibromochloromethane	**17.2**		µg/kg		20.0		86	70-130	0.2	30
1,2-Dibromoethane (EDB)	**18.7**		µg/kg		20.0		94	70-130	2	30
Dibromomethane	**20.8**		µg/kg		20.0		104	70-130	1	30
1,2-Dichlorobenzene	**19.4**		µg/kg		20.0		97	70-130	0.3	30
1,3-Dichlorobenzene	**17.4**		µg/kg		20.0		87	70-130	0.7	30
1,4-Dichlorobenzene	**19.6**		µg/kg		20.0		98	70-130	1	30
Dichlorodifluoromethane (Freon12)	**19.9**		µg/kg		20.0		100	70-130	3	30
1,1-Dichloroethane	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2-Dichloroethane	**22.1**		µg/kg		20.0		111	70-130	1	30
1,1-Dichloroethene	**19.1**		µg/kg		20.0		96	70-130	7	30
cis-1,2-Dichloroethene	**19.1**		µg/kg		20.0		96	70-130	2	30
trans-1,2-Dichloroethene	**18.4**		µg/kg		20.0		92	70-130	0.3	30
1,2-Dichloropropane	**20.1**		µg/kg		20.0		100	70-130	0.2	30
1,3-Dichloropropane	**19.8**		µg/kg		20.0		99	70-130	1	30
2,2-Dichloropropane	**12.9**	QC2	µg/kg		20.0		65	70-130	0.7	30
1,1-Dichloropropene	**18.6**		µg/kg		20.0		93	70-130	0.3	30
cis-1,3-Dichloropropene	**16.6**		µg/kg		20.0		83	70-130	3	30
trans-1,3-Dichloropropene	**15.4**		µg/kg		20.0		77	70-130	3	30
Ethylbenzene	**18.7**		µg/kg		20.0		94	70-130	0.2	30
Hexachlorobutadiene	**17.8**		µg/kg		20.0		89	70-130	1	30
2-Hexanone (MBK)	**18.2**		µg/kg		20.0		91	70-130	3	30
Isopropylbenzene	**18.2**		µg/kg		20.0		91	70-130	0.06	30
4-Isopropyltoluene	**20.5**		µg/kg		20.0		103	70-130	0.9	30
Methyl tert-butyl ether	**15.4**		µg/kg		20.0		77	70-130	0.8	30
4-Methyl-2-pentanone (MIBK)	**19.1**		µg/kg		20.0		95	70-130	9	30
Methylene chloride	**19.6**		µg/kg		20.0		98	70-130	2	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717335 - SW846 5035A Soil (low level)										
LCS Dup (1717335-BSD1)					Prepared & Analyzed: 12-Oct-17					
Naphthalene	**16.6**		µg/kg		20.0		83	70-130	9	30
n-Propylbenzene	**18.2**		µg/kg		20.0		91	70-130	0.4	30
Styrene	**17.9**		µg/kg		20.0		89	70-130	3	30
1,1,1,2-Tetrachloroethane	**17.3**		µg/kg		20.0		87	70-130	2	30
1,1,2,2-Tetrachloroethane	**19.3**		µg/kg		20.0		97	70-130	0.3	30
Tetrachloroethene	**16.4**		µg/kg		20.0		82	70-130	1	30
Toluene	**18.8**		µg/kg		20.0		94	70-130	0.3	30
1,2,3-Trichlorobenzene	**20.2**		µg/kg		20.0		101	70-130	2	30
1,2,4-Trichlorobenzene	**19.8**		µg/kg		20.0		99	70-130	1	30
1,3,5-Trichlorobenzene	**20.8**		µg/kg		20.0		104	70-130	0.2	30
1,1,1-Trichloroethane	**17.6**		µg/kg		20.0		88	70-130	1	30
1,1,2-Trichloroethane	**19.6**		µg/kg		20.0		98	70-130	2	30
Trichloroethene	**18.7**		µg/kg		20.0		94	70-130	1	30
Trichlorofluoromethane (Freon 11)	**23.6**		µg/kg		20.0		118	70-130	1	30
1,2,3-Trichloropropane	**19.8**		µg/kg		20.0		99	70-130	2	30
1,2,4-Trimethylbenzene	**19.2**		µg/kg		20.0		96	70-130	0.4	30
1,3,5-Trimethylbenzene	**18.6**		µg/kg		20.0		93	70-130	0.2	30
Vinyl chloride	**25.2**		µg/kg		20.0		126	70-130	0.8	30
m,p-Xylene	**17.3**		µg/kg		20.0		86	70-130	0.4	30
o-Xylene	**18.0**		µg/kg		20.0		90	70-130	1	30
Tetrahydrofuran	**16.4**		µg/kg		20.0		82	70-130	2	30
Ethyl ether	**22.6**		µg/kg		20.0		113	70-130	3	30
Tert-amyl methyl ether	**27.5**	QC2	µg/kg		20.0		137	70-130	3	30
Ethyl tert-butyl ether	**16.7**		µg/kg		20.0		84	70-130	1	30
Di-isopropyl ether	**21.5**		µg/kg		20.0		107	70-130	2	30
Tert-Butanol / butyl alcohol	**168**		µg/kg		200		84	70-130	10	30
1,4-Dioxane	**149**		µg/kg		200		75	70-130	3	30
trans-1,4-Dichloro-2-butene	**13.2**	QC2	µg/kg		20.0		66	70-130	7	30
Ethanol	**439**		µg/kg		400		110	70-130	3	30
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*48.7*		µg/kg		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.0*		µg/kg		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)					Prepared & Analyzed: 12-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)					Prepared & Analyzed: 12-Oct-17					
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)						Prepared & Analyzed: 12-Oct-17				
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
Surrogate: 4-Bromofluorobenzene	*49.9*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*50.0*		µg/kg		*50.0*		*100*	*70-130*		
LCS (1717338-BS1)						Prepared & Analyzed: 12-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**16.6**	D	µg/kg		20.0		83	70-130		
Acetone	**19.4**	D	µg/kg		20.0		97	70-130		
Acrylonitrile	**20.8**	D	µg/kg		20.0		104	70-130		
Benzene	**20.7**	D	µg/kg		20.0		104	70-130		
Bromobenzene	**22.0**	D	µg/kg		20.0		110	70-130		
Bromochloromethane	**21.1**	D	µg/kg		20.0		106	70-130		
Bromodichloromethane	**20.2**	D	µg/kg		20.0		101	70-130		
Bromoform	**22.0**	D	µg/kg		20.0		110	70-130		
Bromomethane	**31.6**	D	µg/kg		20.0		158	70-130		
2-Butanone (MEK)	**19.9**	D	µg/kg		20.0		100	70-130		
n-Butylbenzene	**18.1**	D	µg/kg		20.0		90	70-130		
sec-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130		
tert-Butylbenzene	**19.9**	D	µg/kg		20.0		99	70-130		
Carbon disulfide	**18.9**	D	µg/kg		20.0		95	70-130		
Carbon tetrachloride	**17.6**	D	µg/kg		20.0		88	70-130		
Chlorobenzene	**21.3**	D	µg/kg		20.0		106	70-130		
Chloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
Chloroform	**21.0**	D	µg/kg		20.0		105	70-130		
Chloromethane	**15.4**	D	µg/kg		20.0		77	70-130		
2-Chlorotoluene	**20.9**	D	µg/kg		20.0		104	70-130		
4-Chlorotoluene	**20.8**	D	µg/kg		20.0		104	70-130		
1,2-Dibromo-3-chloropropane	**19.5**	D	µg/kg		20.0		97	70-130		
Dibromochloromethane	**20.9**	D	µg/kg		20.0		104	70-130		
1,2-Dibromoethane (EDB)	**20.8**	D	µg/kg		20.0		104	70-130		
Dibromomethane	**21.9**	D	µg/kg		20.0		110	70-130		
1,2-Dichlorobenzene	**21.4**	D	µg/kg		20.0		107	70-130		
1,3-Dichlorobenzene	**21.0**	D	µg/kg		20.0		105	70-130		
1,4-Dichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
Dichlorodifluoromethane (Freon12)	**16.8**	D	µg/kg		20.0		84	70-130		
1,1-Dichloroethane	**20.3**	D	µg/kg		20.0		101	70-130		
1,2-Dichloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
1,1-Dichloroethene	**17.5**	D	µg/kg		20.0		88	70-130		
cis-1,2-Dichloroethene	**21.6**	D	µg/kg		20.0		108	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS (1717338-BS1)						Prepared & Analyzed: 12-Oct-17				
trans-1,2-Dichloroethene	**20.2**	D	µg/kg		20.0		101	70-130		
1,2-Dichloropropane	**20.5**	D	µg/kg		20.0		103	70-130		
1,3-Dichloropropane	**21.0**	D	µg/kg		20.0		105	70-130		
2,2-Dichloropropane	**21.8**	D	µg/kg		20.0		109	70-130		
1,1-Dichloropropene	**18.6**	D	µg/kg		20.0		93	70-130		
cis-1,3-Dichloropropene	**19.8**	D	µg/kg		20.0		99	70-130		
trans-1,3-Dichloropropene	**19.9**	D	µg/kg		20.0		100	70-130		
Ethylbenzene	**21.0**	D	µg/kg		20.0		105	70-130		
Hexachlorobutadiene	**17.8**	D	µg/kg		20.0		89	70-130		
2-Hexanone (MBK)	**18.2**	D	µg/kg		20.0		91	70-130		
Isopropylbenzene	**19.9**	D	µg/kg		20.0		100	70-130		
4-Isopropyltoluene	**19.4**	D	µg/kg		20.0		97	70-130		
Methyl tert-butyl ether	**21.6**	D	µg/kg		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	**18.5**	D	µg/kg		20.0		92	70-130		
Methylene chloride	**20.0**	D	µg/kg		20.0		100	70-130		
Naphthalene	**20.3**	D	µg/kg		20.0		101	70-130		
n-Propylbenzene	**19.6**	D	µg/kg		20.0		98	70-130		
Styrene	**20.4**	D	µg/kg		20.0		102	70-130		
1,1,1,2-Tetrachloroethane	**21.2**	D	µg/kg		20.0		106	70-130		
1,1,2,2-Tetrachloroethane	**20.5**	D	µg/kg		20.0		103	70-130		
Tetrachloroethene	**18.5**	D	µg/kg		20.0		92	70-130		
Toluene	**20.2**	D	µg/kg		20.0		101	70-130		
1,2,3-Trichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
1,2,4-Trichlorobenzene	**19.4**	D	µg/kg		20.0		97	70-130		
1,3,5-Trichlorobenzene	**20.4**	D	µg/kg		20.0		102	70-130		
1,1,1-Trichloroethane	**19.5**	D	µg/kg		20.0		97	70-130		
1,1,2-Trichloroethane	**21.8**	D	µg/kg		20.0		109	70-130		
Trichloroethene	**20.0**	D	µg/kg		20.0		100	70-130		
Trichlorofluoromethane (Freon 11)	**17.9**	D	µg/kg		20.0		89	70-130		
1,2,3-Trichloropropane	**21.8**	D	µg/kg		20.0		109	70-130		
1,2,4-Trimethylbenzene	**20.9**	D	µg/kg		20.0		104	70-130		
1,3,5-Trimethylbenzene	**20.4**	D	µg/kg		20.0		102	70-130		
Vinyl chloride	**18.9**	D	µg/kg		20.0		94	70-130		
m,p-Xylene	**21.5**	D	µg/kg		20.0		107	70-130		
o-Xylene	**22.2**	D	µg/kg		20.0		111	70-130		
Tetrahydrofuran	**19.6**	D	µg/kg		20.0		98	70-130		
Ethyl ether	**21.8**	D	µg/kg		20.0		109	70-130		
Tert-amyl methyl ether	**20.6**	D	µg/kg		20.0		103	70-130		
Ethyl tert-butyl ether	**21.5**	D	µg/kg		20.0		108	70-130		
Di-isopropyl ether	**20.2**	D	µg/kg		20.0		101	70-130		
Tert-Butanol / butyl alcohol	**201**	D	µg/kg		200		100	70-130		
1,4-Dioxane	**186**	D	µg/kg		200		93	70-130		
trans-1,4-Dichloro-2-butene	**18.4**	D	µg/kg		20.0		92	70-130		
Ethanol	**380**	D	µg/kg		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/kg		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*47.3*		µg/kg		*50.0*		*95*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg		*50.0*		*102*	*70-130*		
LCS Dup (1717338-BSD1)						Prepared & Analyzed: 12-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.3**	D	µg/kg		20.0		86	70-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS Dup (1717338-BSD1)					Prepared & Analyzed: 12-Oct-17					
Acetone	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Acrylonitrile	**20.9**	D	µg/kg		20.0		105	70-130	0.7	30
Benzene	**21.8**	D	µg/kg		20.0		109	70-130	5	30
Bromobenzene	**22.9**	D	µg/kg		20.0		114	70-130	4	30
Bromochloromethane	**22.3**	D	µg/kg		20.0		112	70-130	6	30
Bromodichloromethane	**21.5**	D	µg/kg		20.0		108	70-130	6	30
Bromoform	**23.2**	D	µg/kg		20.0		116	70-130	5	30
Bromomethane	**31.9**	D	µg/kg		20.0		160	70-130	1	30
2-Butanone (MEK)	**21.2**	D	µg/kg		20.0		106	70-130	6	30
n-Butylbenzene	**19.0**	D	µg/kg		20.0		95	70-130	5	30
sec-Butylbenzene	**19.8**	D	µg/kg		20.0		99	70-130	4	30
tert-Butylbenzene	**20.6**	D	µg/kg		20.0		103	70-130	4	30
Carbon disulfide	**19.5**	D	µg/kg		20.0		98	70-130	3	30
Carbon tetrachloride	**17.9**	D	µg/kg		20.0		90	70-130	2	30
Chlorobenzene	**22.3**	D	µg/kg		20.0		111	70-130	4	30
Chloroethane	**21.6**	D	µg/kg		20.0		108	70-130	5	30
Chloroform	**22.1**	D	µg/kg		20.0		110	70-130	5	30
Chloromethane	**16.4**	D	µg/kg		20.0		82	70-130	6	30
2-Chlorotoluene	**22.1**	D	µg/kg		20.0		111	70-130	6	30
4-Chlorotoluene	**22.2**	D	µg/kg		20.0		111	70-130	6	30
1,2-Dibromo-3-chloropropane	**21.6**	D	µg/kg		20.0		108	70-130	10	30
Dibromochloromethane	**21.9**	D	µg/kg		20.0		109	70-130	5	30
1,2-Dibromoethane (EDB)	**21.8**	D	µg/kg		20.0		109	70-130	5	30
Dibromomethane	**23.2**	D	µg/kg		20.0		116	70-130	6	30
1,2-Dichlorobenzene	**22.7**	D	µg/kg		20.0		114	70-130	6	30
1,3-Dichlorobenzene	**22.1**	D	µg/kg		20.0		110	70-130	5	30
1,4-Dichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130	7	30
Dichlorodifluoromethane (Freon12)	**17.6**	D	µg/kg		20.0		88	70-130	5	30
1,1-Dichloroethane	**21.4**	D	µg/kg		20.0		107	70-130	5	30
1,2-Dichloroethane	**22.2**	D	µg/kg		20.0		111	70-130	8	30
1,1-Dichloroethene	**18.2**	D	µg/kg		20.0		91	70-130	4	30
cis-1,2-Dichloroethene	**22.6**	D	µg/kg		20.0		113	70-130	5	30
trans-1,2-Dichloroethene	**21.1**	D	µg/kg		20.0		106	70-130	4	30
1,2-Dichloropropane	**22.0**	D	µg/kg		20.0		110	70-130	7	30
1,3-Dichloropropane	**22.4**	D	µg/kg		20.0		112	70-130	7	30
2,2-Dichloropropane	**22.1**	D	µg/kg		20.0		110	70-130	1	30
1,1-Dichloropropene	**19.4**	D	µg/kg		20.0		97	70-130	4	30
cis-1,3-Dichloropropene	**20.8**	D	µg/kg		20.0		104	70-130	5	30
trans-1,3-Dichloropropene	**21.0**	D	µg/kg		20.0		105	70-130	5	30
Ethylbenzene	**22.0**	D	µg/kg		20.0		110	70-130	4	30
Hexachlorobutadiene	**19.2**	D	µg/kg		20.0		96	70-130	8	30
2-Hexanone (MBK)	**19.4**	D	µg/kg		20.0		97	70-130	6	30
Isopropylbenzene	**20.7**	D	µg/kg		20.0		103	70-130	4	30
4-Isopropyltoluene	**20.6**	D	µg/kg		20.0		103	70-130	6	30
Methyl tert-butyl ether	**23.0**	D	µg/kg		20.0		115	70-130	6	30
4-Methyl-2-pentanone (MIBK)	**20.6**	D	µg/kg		20.0		103	70-130	11	30
Methylene chloride	**21.3**	D	µg/kg		20.0		107	70-130	6	30
Naphthalene	**21.7**	D	µg/kg		20.0		108	70-130	7	30
n-Propylbenzene	**20.7**	D	µg/kg		20.0		104	70-130	6	30
Styrene	**21.1**	D	µg/kg		20.0		106	70-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1717338 - SW846 5035A Soil (high level)										
LCS Dup (1717338-BSD1)						Prepared & Analyzed: 12-Oct-17				
1,1,1,2-Tetrachloroethane	**22.2**	D	µg/kg		20.0		111	70-130	5	30
1,1,2,2-Tetrachloroethane	**22.2**	D	µg/kg		20.0		111	70-130	8	30
Tetrachloroethene	**19.0**	D	µg/kg		20.0		95	70-130	3	30
Toluene	**21.2**	D	µg/kg		20.0		106	70-130	5	30
1,2,3-Trichlorobenzene	**21.8**	D	µg/kg		20.0		109	70-130	7	30
1,2,4-Trichlorobenzene	**20.5**	D	µg/kg		20.0		102	70-130	5	30
1,3,5-Trichlorobenzene	**21.2**	D	µg/kg		20.0		106	70-130	4	30
1,1,1-Trichloroethane	**20.1**	D	µg/kg		20.0		101	70-130	3	30
1,1,2-Trichloroethane	**23.2**	D	µg/kg		20.0		116	70-130	6	30
Trichloroethene	**20.6**	D	µg/kg		20.0		103	70-130	3	30
Trichlorofluoromethane (Freon 11)	**18.4**	D	µg/kg		20.0		92	70-130	3	30
1,2,3-Trichloropropane	**23.7**	D	µg/kg		20.0		118	70-130	8	30
1,2,4-Trimethylbenzene	**21.9**	D	µg/kg		20.0		110	70-130	5	30
1,3,5-Trimethylbenzene	**21.6**	D	µg/kg		20.0		108	70-130	5	30
Vinyl chloride	**21.3**	D	µg/kg		20.0		107	70-130	12	30
m,p-Xylene	**22.4**	D	µg/kg		20.0		112	70-130	4	30
o-Xylene	**23.2**	D	µg/kg		20.0		116	70-130	4	30
Tetrahydrofuran	**21.3**	D	µg/kg		20.0		106	70-130	8	30
Ethyl ether	**23.6**	D	µg/kg		20.0		118	70-130	8	30
Tert-amyl methyl ether	**22.3**	D	µg/kg		20.0		112	70-130	8	30
Ethyl tert-butyl ether	**23.1**	D	µg/kg		20.0		116	70-130	7	30
Di-isopropyl ether	**21.6**	D	µg/kg		20.0		108	70-130	7	30
Tert-Butanol / butyl alcohol	**210**	D	µg/kg		200		105	70-130	4	30
1,4-Dioxane	**181**	D	µg/kg		200		91	70-130	2	30
trans-1,4-Dichloro-2-butene	**18.7**	D	µg/kg		20.0		93	70-130	1	30
Ethanol	**411**	D	µg/kg		400		103	70-130	8	30
Surrogate: 4-Bromofluorobenzene	*50.3*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.0*		µg/kg		*50.0*		*96*	*70-130*		
Surrogate: Dibromofluoromethane	*51.1*		µg/kg		*50.0*		*102*	*70-130*		
SW846 8260C TICs										
Batch 1717131 - SW846 5035A Soil (low level)										
Blank (1717131-BLK1)						Prepared & Analyzed: 09-Oct-17				
Tentatively Identified Compounds	**None found**		µg/kg wet							
Batch 1717197 - SW846 5035A Soil (low level)										
Blank (1717197-BLK1)						Prepared & Analyzed: 10-Oct-17				
Tentatively Identified Compounds	**None found**		µg/kg wet							
Batch 1717290 - SW846 5035A Soil (high level)										
Blank (1717290-BLK1)						Prepared & Analyzed: 11-Oct-17				
Tentatively Identified Compounds	**0.0**	U, D	µg/kg wet							
Batch 1717293 - SW846 5035A Soil (low level)										
Blank (1717293-BLK1)						Prepared & Analyzed: 11-Oct-17				
Tentatively Identified Compounds	**None found**		µg/kg wet							
Batch 1717335 - SW846 5035A Soil (low level)										
Blank (1717335-BLK1)						Prepared & Analyzed: 12-Oct-17				
Tentatively Identified Compounds	**None found**		µg/kg wet							
Batch 1717338 - SW846 5035A Soil (high level)										
Blank (1717338-BLK1)						Prepared & Analyzed: 12-Oct-17				
Tentatively Identified Compounds	**0.0**	U, D	µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716926 - SW846 3546										
Blank (1716926-BLK1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
Acenaphthene	< 66.4	U	µg/kg wet	66.4						
Acenaphthylene	< 66.4	U	µg/kg wet	66.4						
Aniline	< 329	U	µg/kg wet	329						
Anthracene	< 66.4	U	µg/kg wet	66.4						
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329						
Benzidine	< 329	U	µg/kg wet	329						
Benzo (a) anthracene	< 66.4	U	µg/kg wet	66.4						
Benzo (a) pyrene	< 66.4	U	µg/kg wet	66.4						
Benzo (b) fluoranthene	< 66.4	U	µg/kg wet	66.4						
Benzo (g,h,i) perylene	< 66.4	U	µg/kg wet	66.4						
Benzo (k) fluoranthene	< 66.4	U	µg/kg wet	66.4						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.4	U	µg/kg wet	66.4						
Dibenzo (a,h) anthracene	< 66.4	U	µg/kg wet	66.4						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3´-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.4	U	µg/kg wet	66.4						
Fluorene	< 66.4	U	µg/kg wet	66.4						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.4	U	µg/kg wet	66.4						
Isophorone	< 166	U	µg/kg wet	166						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716926 - SW846 3546										
Blank (1716926-BLK1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
2-Methylnaphthalene	< 66.4	U	µg/kg wet	66.4						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.4	U	µg/kg wet	66.4						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.4	U	µg/kg wet	66.4						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.4	U	µg/kg wet	66.4						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.4	U	µg/kg wet	66.4						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	*869*		µg/kg wet		*1660*		*52*	*30-130*		
Surrogate: 2-Fluorophenol	*727*		µg/kg wet		*1660*		*44*	*30-130*		
Surrogate: Nitrobenzene-d5	*828*		µg/kg wet		*1660*		*50*	*30-130*		
Surrogate: Phenol-d5	*864*		µg/kg wet		*1660*		*52*	*30-130*		
Surrogate: Terphenyl-dl4	*1150*		µg/kg wet		*1660*		*69*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*632*		µg/kg wet		*1660*		*38*	*30-130*		
LCS (1716926-BS1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
Acenaphthene	**1050**		µg/kg wet	66.3	1660		63	40-140		
Acenaphthylene	**1160**		µg/kg wet	66.3	1660		70	40-140		
Aniline	**683**		µg/kg wet	328	1660		41	40-140		
Anthracene	**868**		µg/kg wet	66.3	1660		52	40-140		
Azobenzene/Diphenyldiazene	**929**		µg/kg wet	328	1660		56	40-140		
Benzidine	**697**		µg/kg wet	328	1660		42	40-140		
Benzo (a) anthracene	**1010**		µg/kg wet	66.3	1660		61	40-140		
Benzo (a) pyrene	**1120**		µg/kg wet	66.3	1660		67	40-140		
Benzo (b) fluoranthene	**1120**		µg/kg wet	66.3	1660		67	40-140		
Benzo (g,h,i) perylene	**1010**		µg/kg wet	66.3	1660		61	40-140		
Benzo (k) fluoranthene	**1150**		µg/kg wet	66.3	1660		69	40-140		
Benzoic acid	**321**	QC2, J	µg/kg wet	328	1660		19	30-130		
Benzyl alcohol	**959**		µg/kg wet	328	1660		58	40-140		
Bis(2-chloroethoxy)methane	**605**	QC2	µg/kg wet	328	1660		36	40-140		
Bis(2-chloroethyl)ether	**797**		µg/kg wet	166	1660		48	40-140		
Bis(2-chloroisopropyl)ether	**598**	QC2	µg/kg wet	166	1660		36	40-140		
Bis(2-ethylhexyl)phthalate	**1040**		µg/kg wet	166	1660		63	40-140		
4-Bromophenyl phenyl ether	**884**		µg/kg wet	328	1660		53	40-140		
Butyl benzyl phthalate	**965**		µg/kg wet	328	1660		58	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716926 - SW846 3546										
LCS (1716926-BS1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
Carbazole	**1400**		µg/kg wet	166	1660		84	40-140		
4-Chloro-3-methylphenol	**1130**		µg/kg wet	328	1660		68	30-130		
4-Chloroaniline	**728**		µg/kg wet	166	1660		44	40-140		
2-Chloronaphthalene	**1350**		µg/kg wet	328	1660		81	40-140		
2-Chlorophenol	**908**		µg/kg wet	166	1660		55	30-130		
4-Chlorophenyl phenyl ether	**1160**		µg/kg wet	328	1660		70	40-140		
Chrysene	**1080**		µg/kg wet	66.3	1660		65	40-140		
Dibenzo (a,h) anthracene	**1190**		µg/kg wet	66.3	1660		72	40-140		
Dibenzofuran	**1170**		µg/kg wet	166	1660		70	40-140		
1,2-Dichlorobenzene	**1100**		µg/kg wet	328	1660		67	40-140		
1,3-Dichlorobenzene	**1020**		µg/kg wet	328	1660		61	40-140		
1,4-Dichlorobenzene	**1100**		µg/kg wet	328	1660		66	40-140		
3,3´-Dichlorobenzidine	**1580**		µg/kg wet	328	1660		95	40-140		
2,4-Dichlorophenol	**973**		µg/kg wet	166	1660		59	30-130		
Diethyl phthalate	**1220**		µg/kg wet	328	1660		74	40-140		
Dimethyl phthalate	**1270**		µg/kg wet	328	1660		76	40-140		
2,4-Dimethylphenol	**773**		µg/kg wet	328	1660		47	30-130		
Di-n-butyl phthalate	**1020**		µg/kg wet	328	1660		62	40-140		
4,6-Dinitro-2-methylphenol	**870**		µg/kg wet	328	1660		52	30-130		
2,4-Dinitrophenol	**617**		µg/kg wet	328	1660		37	30-130		
2,4-Dinitrotoluene	**1380**		µg/kg wet	166	1660		84	40-140		
2,6-Dinitrotoluene	**1330**		µg/kg wet	166	1660		80	40-140		
Di-n-octyl phthalate	**1180**		µg/kg wet	328	1660		71	40-140		
Fluoranthene	**932**		µg/kg wet	66.3	1660		56	40-140		
Fluorene	**995**		µg/kg wet	66.3	1660		60	40-140		
Hexachlorobenzene	**1120**		µg/kg wet	166	1660		68	40-140		
Hexachlorobutadiene	**1140**		µg/kg wet	166	1660		69	40-140		
Hexachlorocyclopentadiene	**1340**		µg/kg wet	166	1660		81	40-140		
Hexachloroethane	**1160**		µg/kg wet	166	1660		70	40-140		
Indeno (1,2,3-cd) pyrene	**1110**		µg/kg wet	66.3	1660		67	40-140		
Isophorone	**863**		µg/kg wet	166	1660		52	40-140		
2-Methylnaphthalene	**1320**		µg/kg wet	66.3	1660		79	40-140		
2-Methylphenol	**902**		µg/kg wet	328	1660		54	30-130		
3 & 4-Methylphenol	**1040**		µg/kg wet	328	1660		63	30-130		
Naphthalene	**940**		µg/kg wet	66.3	1660		57	40-140		
2-Nitroaniline	**1030**		µg/kg wet	328	1660		62	40-140		
3-Nitroaniline	**1260**		µg/kg wet	328	1660		76	40-140		
4-Nitroaniline	**1190**		µg/kg wet	166	1660		72	40-140		
Nitrobenzene	**1040**		µg/kg wet	166	1660		63	40-140		
2-Nitrophenol	**950**		µg/kg wet	166	1660		57	30-130		
4-Nitrophenol	**1170**	J	µg/kg wet	1310	1660		71	30-130		
N-Nitrosodimethylamine	**667**		µg/kg wet	166	1660		40	40-140		
N-Nitrosodi-n-propylamine	**842**		µg/kg wet	166	1660		51	40-140		
N-Nitrosodiphenylamine	**967**		µg/kg wet	328	1660		58	40-140		
Pentachlorophenol	**591**		µg/kg wet	328	1660		36	30-130		
Phenanthrene	**918**		µg/kg wet	66.3	1660		55	40-140		
Phenol	**949**		µg/kg wet	328	1660		57	30-130		
Pyrene	**965**		µg/kg wet	66.3	1660		58	40-140		
Pyridine	**501**	QC2	µg/kg wet	328	1660		30	40-140		
1,2,4-Trichlorobenzene	**1150**		µg/kg wet	328	1660		69	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716926 - SW846 3546										
LCS (1716926-BS1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
1-Methylnaphthalene	**1100**		µg/kg wet	66.3	1660		66	40-140		
2,4,5-Trichlorophenol	**1260**		µg/kg wet	328	1660		76	30-130		
2,4,6-Trichlorophenol	**1120**		µg/kg wet	166	1660		68	30-130		
Pentachloronitrobenzene	**1310**		µg/kg wet	328	1660		79	40-140		
1,2,4,5-Tetrachlorobenzene	**1090**		µg/kg wet	328	1660		66	40-140		
Surrogate: 2-Fluorobiphenyl	*1100*		µg/kg wet		*1660*		*66*	*30-130*		
Surrogate: 2-Fluorophenol	*831*		µg/kg wet		*1660*		*50*	*30-130*		
Surrogate: Nitrobenzene-d5	*872*		µg/kg wet		*1660*		*53*	*30-130*		
Surrogate: Phenol-d5	*944*		µg/kg wet		*1660*		*57*	*30-130*		
Surrogate: Terphenyl-dl4	*1110*		µg/kg wet		*1660*		*67*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1050*		µg/kg wet		*1660*		*63*	*30-130*		
LCS Dup (1716926-BSD1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
Acenaphthene	**977**		µg/kg wet	66.3	1660		59	40-140	7	30
Acenaphthylene	**1080**		µg/kg wet	66.3	1660		65	40-140	7	30
Aniline	**673**		µg/kg wet	328	1660		41	40-140	1	30
Anthracene	**859**		µg/kg wet	66.3	1660		52	40-140	1	30
Azobenzene/Diphenyldiazene	**897**		µg/kg wet	328	1660		54	40-140	4	30
Benzidine	**1010**	QR2	µg/kg wet	328	1660		61	40-140	37	30
Benzo (a) anthracene	**953**		µg/kg wet	66.3	1660		58	40-140	6	30
Benzo (a) pyrene	**1120**		µg/kg wet	66.3	1660		68	40-140	0.3	30
Benzo (b) fluoranthene	**1110**		µg/kg wet	66.3	1660		67	40-140	0.7	30
Benzo (g,h,i) perylene	**952**		µg/kg wet	66.3	1660		57	40-140	6	30
Benzo (k) fluoranthene	**1080**		µg/kg wet	66.3	1660		65	40-140	6	30
Benzoic acid	**349**	QC2	µg/kg wet	328	1660		21	30-130	8	30
Benzyl alcohol	**884**		µg/kg wet	328	1660		53	40-140	8	30
Bis(2-chloroethoxy)methane	**611**	QC2	µg/kg wet	328	1660		37	40-140	1	30
Bis(2-chloroethyl)ether	**752**		µg/kg wet	166	1660		45	40-140	6	30
Bis(2-chloroisopropyl)ether	**566**	QC2	µg/kg wet	166	1660		34	40-140	6	30
Bis(2-ethylhexyl)phthalate	**994**		µg/kg wet	166	1660		60	40-140	4	30
4-Bromophenyl phenyl ether	**811**		µg/kg wet	328	1660		49	40-140	9	30
Butyl benzyl phthalate	**1010**		µg/kg wet	328	1660		61	40-140	4	30
Carbazole	**1350**		µg/kg wet	166	1660		82	40-140	3	30
4-Chloro-3-methylphenol	**1040**		µg/kg wet	328	1660		63	30-130	8	30
4-Chloroaniline	**750**		µg/kg wet	166	1660		45	40-140	3	30
2-Chloronaphthalene	**1270**		µg/kg wet	328	1660		76	40-140	6	30
2-Chlorophenol	**858**		µg/kg wet	166	1660		52	30-130	6	30
4-Chlorophenyl phenyl ether	**1130**		µg/kg wet	328	1660		68	40-140	3	30
Chrysene	**1050**		µg/kg wet	66.3	1660		63	40-140	3	30
Dibenzo (a,h) anthracene	**1180**		µg/kg wet	66.3	1660		71	40-140	1	30
Dibenzofuran	**1100**		µg/kg wet	166	1660		66	40-140	6	30
1,2-Dichlorobenzene	**1040**		µg/kg wet	328	1660		63	40-140	6	30
1,3-Dichlorobenzene	**973**		µg/kg wet	328	1660		59	40-140	5	30
1,4-Dichlorobenzene	**1090**		µg/kg wet	328	1660		66	40-140	0.8	30
3,3´-Dichlorobenzidine	**1560**		µg/kg wet	328	1660		94	40-140	0.9	30
2,4-Dichlorophenol	**912**		µg/kg wet	166	1660		55	30-130	6	30
Diethyl phthalate	**1210**		µg/kg wet	328	1660		73	40-140	1	30
Dimethyl phthalate	**1150**		µg/kg wet	328	1660		70	40-140	10	30
2,4-Dimethylphenol	**818**		µg/kg wet	328	1660		49	30-130	6	30
Di-n-butyl phthalate	**935**		µg/kg wet	328	1660		56	40-140	9	30
4,6-Dinitro-2-methylphenol	**902**		µg/kg wet	328	1660		54	30-130	4	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716926 - SW846 3546										
LCS Dup (1716926-BSD1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
2,4-Dinitrophenol	**768**		µg/kg wet	328	1660		46	30-130	22	30
2,4-Dinitrotoluene	**1260**		µg/kg wet	166	1660		76	40-140	9	30
2,6-Dinitrotoluene	**1130**		µg/kg wet	166	1660		68	40-140	16	30
Di-n-octyl phthalate	**1120**		µg/kg wet	328	1660		67	40-140	5	30
Fluoranthene	**901**		µg/kg wet	66.3	1660		54	40-140	3	30
Fluorene	**921**		µg/kg wet	66.3	1660		56	40-140	8	30
Hexachlorobenzene	**1090**		µg/kg wet	166	1660		66	40-140	3	30
Hexachlorobutadiene	**1050**		µg/kg wet	166	1660		63	40-140	8	30
Hexachlorocyclopentadiene	**1320**		µg/kg wet	166	1660		80	40-140	1	30
Hexachloroethane	**1090**		µg/kg wet	166	1660		66	40-140	7	30
Indeno (1,2,3-cd) pyrene	**1100**		µg/kg wet	66.3	1660		66	40-140	0.7	30
Isophorone	**779**		µg/kg wet	166	1660		47	40-140	10	30
2-Methylnaphthalene	**1170**		µg/kg wet	66.3	1660		71	40-140	12	30
2-Methylphenol	**839**		µg/kg wet	328	1660		51	30-130	7	30
3 & 4-Methylphenol	**961**		µg/kg wet	328	1660		58	30-130	8	30
Naphthalene	**892**		µg/kg wet	66.3	1660		54	40-140	5	30
2-Nitroaniline	**958**		µg/kg wet	328	1660		58	40-140	7	30
3-Nitroaniline	**1290**		µg/kg wet	328	1660		78	40-140	3	30
4-Nitroaniline	**1150**		µg/kg wet	166	1660		69	40-140	4	30
Nitrobenzene	**1000**		µg/kg wet	166	1660		60	40-140	4	30
2-Nitrophenol	**860**		µg/kg wet	166	1660		52	30-130	10	30
4-Nitrophenol	**1080**	J	µg/kg wet	1310	1660		65	30-130	8	30
N-Nitrosodimethylamine	**625**	QC2	µg/kg wet	166	1660		38	40-140	7	30
N-Nitrosodi-n-propylamine	**775**		µg/kg wet	166	1660		47	40-140	8	30
N-Nitrosodiphenylamine	**920**		µg/kg wet	328	1660		56	40-140	5	30
Pentachlorophenol	**593**		µg/kg wet	328	1660		36	30-130	0.3	30
Phenanthrene	**883**		µg/kg wet	66.3	1660		53	40-140	4	30
Phenol	**882**		µg/kg wet	328	1660		53	30-130	7	30
Pyrene	**998**		µg/kg wet	66.3	1660		60	40-140	3	30
Pyridine	**512**	QC2	µg/kg wet	328	1660		31	40-140	2	30
1,2,4-Trichlorobenzene	**1050**		µg/kg wet	328	1660		63	40-140	9	30
1-Methylnaphthalene	**1010**		µg/kg wet	66.3	1660		61	40-140	8	30
2,4,5-Trichlorophenol	**1160**		µg/kg wet	328	1660		70	30-130	8	30
2,4,6-Trichlorophenol	**1020**		µg/kg wet	166	1660		62	30-130	9	30
Pentachloronitrobenzene	**1280**		µg/kg wet	328	1660		77	40-140	3	30
1,2,4,5-Tetrachlorobenzene	**1030**		µg/kg wet	328	1660		62	40-140	5	30
Surrogate: 2-Fluorobiphenyl	*1020*		µg/kg wet		*1660*		*61*	*30-130*		
Surrogate: 2-Fluorophenol	*780*		µg/kg wet		*1660*		*47*	*30-130*		
Surrogate: Nitrobenzene-d5	*838*		µg/kg wet		*1660*		*51*	*30-130*		
Surrogate: Phenol-d5	*902*		µg/kg wet		*1660*		*54*	*30-130*		
Surrogate: Terphenyl-dl4	*1140*		µg/kg wet		*1660*		*69*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*970*		µg/kg wet		*1660*		*59*	*30-130*		
SW846 8270D TICS										
Batch 1716926 - SW846 3546										
Blank (1716926-BLK1)					Prepared: 04-Oct-17 Analyzed: 10-Oct-17					
Cyclohexasiloxane, dodecame...	**170**	J N	µg/kg wet							
Cyclopentasiloxane, decamet...	**310**	J N	µg/kg wet							

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1717183 - SW846 3546										
Blank (1717183-BLK1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	< 19.9	U	µg/kg wet	19.9						
Aroclor-1016 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221	< 19.9	U	µg/kg wet	19.9						
Aroclor-1221 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232	< 19.9	U	µg/kg wet	19.9						
Aroclor-1232 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242	< 19.9	U	µg/kg wet	19.9						
Aroclor-1242 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248	< 19.9	U	µg/kg wet	19.9						
Aroclor-1248 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254	< 19.9	U	µg/kg wet	19.9						
Aroclor-1254 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260	< 19.9	U	µg/kg wet	19.9						
Aroclor-1260 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262	< 19.9	U	µg/kg wet	19.9						
Aroclor-1262 [2C]	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268	< 19.9	U	µg/kg wet	19.9						
Aroclor-1268 [2C]	< 19.9	U	µg/kg wet	19.9						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.0*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.0*		µg/kg wet		*19.9*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*15.0*		µg/kg wet		*19.9*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.9*		µg/kg wet		*19.9*		*80*	*30-150*		
LCS (1717183-BS1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	**146**		µg/kg wet	19.4	243		60	40-140		
Aroclor-1016 [2C]	**171**		µg/kg wet	19.4	243		70	40-140		
Aroclor-1260	**161**		µg/kg wet	19.4	243		66	40-140		
Aroclor-1260 [2C]	**199**		µg/kg wet	19.4	243		82	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.6*		µg/kg wet		*19.4*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*12.6*		µg/kg wet		*19.4*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.4*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.5*		µg/kg wet		*19.4*		*80*	*30-150*		
LCS Dup (1717183-BSD1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Aroclor-1016	**167**		µg/kg wet	19.5	244		68	40-140	13	30
Aroclor-1016 [2C]	**169**		µg/kg wet	19.5	244		69	40-140	1	30
Aroclor-1260	**173**		µg/kg wet	19.5	244		71	40-140	7	30
Aroclor-1260 [2C]	**182**		µg/kg wet	19.5	244		75	40-140	9	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.7*		µg/kg wet		*19.5*		*65*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*13.6*		µg/kg wet		*19.5*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*14.6*		µg/kg wet		*19.5*		*75*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.6*		µg/kg wet		*19.5*		*80*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717184 - SW846 3050B										
Blank (1717184-BLK1)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Copper	< 0.974	U	mg/kg wet	0.974						
Zinc	< 0.974	U	mg/kg wet	0.974						
Cadmium	< 0.487	U	mg/kg wet	0.487						
Vanadium	< 1.46	U	mg/kg wet	1.46						
Thallium	< 2.92	U	mg/kg wet	2.92						
Selenium	< 1.46	U	mg/kg wet	1.46						
Antimony	< 4.87	U	mg/kg wet	4.87						
Nickel	< 0.974	U	mg/kg wet	0.974						
Cobalt	< 0.974	U	mg/kg wet	0.974						
Beryllium	< 0.487	U	mg/kg wet	0.487						
Arsenic	< 1.46	U	mg/kg wet	1.46						
Lead	< 1.46	U	mg/kg wet	1.46						
Silver	< 1.46	U	mg/kg wet	1.46						
Duplicate (1717184-DUP1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Zinc	**43.3**		mg/kg dry	1.02		40.4			7	20
Cadmium	**0.0642**	J	mg/kg dry	0.510		BRL				20
Cobalt	**4.32**		mg/kg dry	1.02		4.04			7	20
Nickel	**9.16**		mg/kg dry	1.02		8.95			2	20
Antimony	**0.530**	QR8, J	mg/kg dry	5.10		BRL			33	20
Selenium	**1.08**	QR8, J	mg/kg dry	1.53		0.803			29	20
Vanadium	**6.87**		mg/kg dry	1.53		6.74			2	20
Beryllium	**0.325**	QR8, J	mg/kg dry	0.510		0.147			75	20
Copper	**12.7**		mg/kg dry	1.02		13.9			9	20
Thallium	< 3.06	U	mg/kg dry	3.06		BRL				20
Silver	< 1.53	U	mg/kg dry	1.53		BRL				20
Lead	**4.19**		mg/kg dry	1.53		4.39			5	20
Arsenic	**4.06**		mg/kg dry	1.53		3.60			12	20
Matrix Spike (1717184-MS1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Cadmium	**88.3**	QM7	mg/kg dry	0.499	125	BRL	71	75-125		
Thallium	**128**		mg/kg dry	2.99	125	BRL	103	75-125		
Silver	**95.7**		mg/kg dry	1.50	125	BRL	77	75-125		
Zinc	**123**	QM7	mg/kg dry	0.997	125	40.4	67	75-125		
Vanadium	**105**		mg/kg dry	1.50	125	6.74	79	75-125		
Beryllium	**100**		mg/kg dry	0.499	125	0.147	80	75-125		
Cobalt	**90.9**	QM7	mg/kg dry	0.997	125	4.04	70	75-125		
Copper	**127**		mg/kg dry	0.997	125	13.9	91	75-125		
Selenium	**106**		mg/kg dry	1.50	125	0.803	85	75-125		
Nickel	**95.2**	QM7	mg/kg dry	0.997	125	8.95	69	75-125		
Lead	**84.7**	QM7	mg/kg dry	1.50	125	4.39	64	75-125		
Antimony	**78.4**	QM7	mg/kg dry	4.99	125	0.379	63	75-125		
Arsenic	**99.5**		mg/kg dry	1.50	125	3.60	77	75-125		
Matrix Spike Dup (1717184-MSD1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Vanadium	**114**		mg/kg dry	1.55	129	6.74	83	75-125	8	20
Cadmium	**95.2**	QM7	mg/kg dry	0.516	129	BRL	74	75-125	7	20
Zinc	**131**	QM7	mg/kg dry	1.03	129	40.4	70	75-125	6	20
Cobalt	**98.2**	QM7	mg/kg dry	1.03	129	4.04	73	75-125	8	20
Thallium	**132**		mg/kg dry	3.10	129	BRL	102	75-125	3	20
Arsenic	**107**		mg/kg dry	1.55	129	3.60	80	75-125	8	20
Silver	**103**		mg/kg dry	1.55	129	BRL	80	75-125	7	20
Copper	**135**		mg/kg dry	1.03	129	13.9	93	75-125	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717184 - SW846 3050B										
Matrix Spike Dup (1717184-MSD1)			**Source: SC39977-08**			Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Nickel	**102**	QM7	mg/kg dry	1.03	129	8.95	72	75-125	7	20
Lead	**91.8**	QM7	mg/kg dry	1.55	129	4.39	68	75-125	8	20
Antimony	**85.2**	QM7	mg/kg dry	5.16	129	BRL	66	75-125	8	20
Selenium	**113**		mg/kg dry	1.55	129	0.803	87	75-125	6	20
Beryllium	**108**		mg/kg dry	0.516	129	0.147	84	75-125	8	20
Post Spike (1717184-PS1)			**Source: SC39977-08**			Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Copper	**117**		mg/kg dry	0.997	125	13.9	83	80-120		
Nickel	**95.2**	QM9	mg/kg dry	0.997	125	8.95	69	80-120		
Zinc	**121**	QM9	mg/kg dry	0.997	125	40.4	65	80-120		
Vanadium	**96.5**	QM9	mg/kg dry	1.50	125	6.74	72	80-120		
Thallium	**117**		mg/kg dry	2.99	125	BRL	93	80-120		
Selenium	**105**		mg/kg dry	1.50	125	0.803	83	80-120		
Cadmium	**89.2**	QM9	mg/kg dry	0.499	125	BRL	72	80-120		
Lead	**86.0**	QM9	mg/kg dry	1.50	125	4.39	65	80-120		
Cobalt	**91.5**	QM9	mg/kg dry	0.997	125	4.04	70	80-120		
Beryllium	**93.3**	QM9	mg/kg dry	0.499	125	0.147	75	80-120		
Arsenic	**99.5**	QM9	mg/kg dry	1.50	125	3.60	77	80-120		
Silver	**93.7**	QM9	mg/kg dry	1.50	125	BRL	75	80-120		
Antimony	**95.1**	QM9	mg/kg dry	4.99	125	0.379	76	80-120		
Reference (1717184-SRM1)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Cobalt	**21.7**	QM9	mg/kg wet	1.00	26.6		82	84-115.8		
Copper	**72.5**		mg/kg wet	1.00	79.1		92	81.7-117.6		
Cadmium	**30.1**	QM9	mg/kg wet	0.500	36.9		82	83.1-116.9		
Silver	**16.5**		mg/kg wet	1.50	18.8		88	75.8-124.2		
Arsenic	**13.7**		mg/kg wet	1.50	15.3		90	70.3-130.1		
Beryllium	**41.4**		mg/kg wet	0.500	47.5		87	82.9-117.4		
Vanadium	**38.4**		mg/kg wet	1.50	42.0		91	78.1-121.9		
Thallium	**51.6**		mg/kg wet	3.00	52.2		99	79.2-120.8		
Selenium	**28.5**		mg/kg wet	1.50	31.3		91	78.2-121.9		
Antimony	**32.8**		mg/kg wet	5.00	60.5		54	25-204.3		
Lead	**58.0**	QM9	mg/kg wet	1.50	71.8		81	82-117.3		
Zinc	**93.9**	QM9	mg/kg wet	1.00	115		81	83-117		
Nickel	**54.0**	QM9	mg/kg wet	1.00	66.7		81	82.9-117.1		
Reference (1717184-SRM2)						Prepared: 10-Oct-17 Analyzed: 11-Oct-17				
Selenium	**29.1**		mg/kg wet	1.50	30.4		96	78.2-121.9		
Nickel	**53.8**		mg/kg wet	1.00	64.8		83	82.9-117.1		
Antimony	**33.1**		mg/kg wet	5.00	58.7		56	25-204.3		
Copper	**72.4**		mg/kg wet	1.00	76.8		94	81.7-117.6		
Cobalt	**21.7**		mg/kg wet	1.00	25.8		84	84-115.8		
Cadmium	**31.1**		mg/kg wet	0.500	35.9		87	83.1-116.9		
Beryllium	**41.8**		mg/kg wet	0.500	46.2		91	82.9-117.4		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717184 - SW846 3050B										
Reference (1717184-SRM2)					Prepared: 10-Oct-17 Analyzed: 11-Oct-17					
Arsenic	**13.3**		mg/kg wet	1.50	14.9		90	70.3-130.1		
Lead	**58.4**		mg/kg wet	1.50	69.8		84	82-117.3		
Zinc	**93.2**		mg/kg wet	1.00	112		83	83-117		
Thallium	**52.1**		mg/kg wet	3.00	50.7		103	79.2-120.8		
Silver	**16.6**		mg/kg wet	1.50	18.3		91	75.8-124.2		
Vanadium	**38.0**		mg/kg wet	1.50	40.8		93	78.1-121.9		
Batch 1717431 - SW846 3050B										
Blank (1717431-BLK1)					Prepared: 10-Oct-17 Analyzed: 13-Oct-17					
Manganese	< 0.974	U	mg/kg wet	0.974						
Potassium	< 48.7	U	mg/kg wet	48.7						
Sodium	**11.2**	J	mg/kg wet	24.3						
Iron	< 3.90	U	mg/kg wet	3.90						
Chromium	< 0.974	U	mg/kg wet	0.974						
Calcium	**8.73**	J	mg/kg wet	24.3						
Aluminum	< 4.87	U	mg/kg wet	4.87						
Magnesium	< 4.87	U	mg/kg wet	4.87						
Barium	< 0.974	U	mg/kg wet	0.974						
Duplicate (1717431-DUP1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 13-Oct-17					
Sodium	**73.6**		mg/kg dry	25.5		67.3			9	20
Potassium	**613**		mg/kg dry	51.0		703			14	20
Manganese	**1570**	GS1, D	mg/kg dry	10.2		1550			2	20
Aluminum	**4210**		mg/kg dry	5.10		4120			2	20
Chromium	**4.16**		mg/kg dry	1.02		4.20			1	20
Iron	**7880**		mg/kg dry	4.08		7490			5	20
Magnesium	**2560**		mg/kg dry	5.10		2550			0.3	20
Calcium	**61400**	GS1, D	mg/kg dry	255		58900			4	20
Barium	**19.5**		mg/kg dry	1.02		20.4			5	20
Matrix Spike (1717431-MS1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 13-Oct-17					
Manganese	**1790**	QM2, D	mg/kg dry	9.97	125	1550	193	75-125		
Sodium	**577**		mg/kg dry	24.9	623	67.3	82	75-125		
Potassium	**2680**	QM8	mg/kg dry	49.9	1250	703	158	75-125		
Magnesium	**2960**	QM2	mg/kg dry	4.99	125	2550	330	75-125		
Chromium	**96.3**	QM8	mg/kg dry	0.997	125	4.20	74	75-125		
Aluminum	**7120**	QM2	mg/kg dry	4.99	125	4120	2410	75-125		
Calcium	**71600**	QM2, D	mg/kg dry	249	623	58900	2040	75-125		
Iron	**7770**	QM2	mg/kg dry	3.99	125	7490	219	75-125		
Barium	**129**		mg/kg dry	0.997	125	20.4	87	75-125		
Matrix Spike Dup (1717431-MSD1)			**Source: SC39977-08**		Prepared: 10-Oct-17 Analyzed: 13-Oct-17					
Sodium	**623**		mg/kg dry	25.8	646	67.3	86	75-125	8	20
Potassium	**2710**	QM8	mg/kg dry	51.6	1290	703	156	75-125	1	20
Manganese	**1870**	QM2, D	mg/kg dry	10.3	129	1550	251	75-125	5	20
Aluminum	**8040**	QM2	mg/kg dry	5.16	129	4120	3040	75-125	12	20
Magnesium	**4330**	QM2	mg/kg dry	5.16	129	2550	1380	75-125	38	20
Calcium	**66300**	QM2, D	mg/kg dry	258	646	58900	1130	75-125	8	20
Chromium	**105**		mg/kg dry	1.03	129	4.20	78	75-125	9	20
Iron	**7760**	QM2	mg/kg dry	4.13	129	7490	207	75-125	0.07	20
Barium	**137**		mg/kg dry	1.03	129	20.4	90	75-125	6	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717431 - SW846 3050B										
Post Spike (1717431-PS1)			**Source: SC39977-08**			Prepared: 10-Oct-17 Analyzed: 13-Oct-17				
Manganese	**2830**	D	mg/kg dry	9.97	1250	1550	103	80-120		
Sodium	**6560**	D	mg/kg dry	249	6230	BRL	105	80-120		
Potassium	**14300**	D	mg/kg dry	499	12500	703	109	80-120		
Aluminum	**6830**	QM2, D	mg/kg dry	49.9	1250	4120	217	80-120		
Calcium	**65000**	D	mg/kg dry	249	6230	58900	97	80-120		
Chromium	**1270**	D	mg/kg dry	9.97	1250	4.20	101	80-120		
Iron	**11500**	QM2, D	mg/kg dry	39.9	1250	7490	325	80-120		
Magnesium	**4760**	QM2, D	mg/kg dry	49.9	1250	2550	177	80-120		
Barium	**1380**	D	mg/kg dry	9.97	1250	20.4	109	80-120		
Reference (1717431-SRM1)						Prepared: 10-Oct-17 Analyzed: 13-Oct-17				
Potassium	**1230**		mg/kg wet	50.0	1250		99	71.1-128.5		
Manganese	**118**		mg/kg wet	1.00	140		84	81.5-118.5		
Sodium	**371**		mg/kg wet	25.0	423		88	71.8-128.2		
Chromium	**45.6**		mg/kg wet	1.00	52.7		86	80.1-119.6		
Calcium	**2910**		mg/kg wet	25.0	3260		89	82.9-117.3		
Aluminum	**4580**		mg/kg wet	5.00	4530		101	54.5-146		
Magnesium	**1310**		mg/kg wet	5.00	1430		92	76.8-123.6		
Iron	**6780**		mg/kg wet	4.00	7850		86	47.2-152.6		
Barium	**90.9**		mg/kg wet	1.00	102		89	82.8-117.2		
Reference (1717431-SRM2)						Prepared: 10-Oct-17 Analyzed: 13-Oct-17				
Potassium	**1220**		mg/kg wet	50.0	1210		100	71.1-128.5		
Sodium	**365**		mg/kg wet	25.0	411		89	71.8-128.2		
Manganese	**123**		mg/kg wet	1.00	136		91	81.5-118.5		
Iron	**6680**		mg/kg wet	4.00	7630		87	47.2-152.6		
Chromium	**45.3**		mg/kg wet	1.00	51.2		88	80.1-119.6		
Calcium	**2820**		mg/kg wet	25.0	3170		89	82.9-117.3		
Aluminum	**4480**		mg/kg wet	5.00	4400		102	54.5-146		
Magnesium	**1290**		mg/kg wet	5.00	1390		93	76.8-123.6		
Barium	**90.8**		mg/kg wet	1.00	99.4		91	82.8-117.2		
SW846 7471B										
Batch 1717185 - EPA200/SW7000 Series										
Blank (1717185-BLK1)						Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	< 0.0297	U	mg/kg wet	0.0297						
Duplicate (1717185-DUP1)			**Source: SC39977-08**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	< 0.0304	U	mg/kg dry	0.0304		BRL				20
Matrix Spike (1717185-MS1)			**Source: SC39977-08**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	**0.240**		mg/kg dry	0.0303	0.211	BRL	114	75-125		
Matrix Spike Dup (1717185-MSD1)			**Source: SC39977-08**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 7471B										
Batch 1717185 - EPA200/SW7000 Series										
Matrix Spike Dup (1717185-MSD1)			**Source: SC39977-08**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	**0.194**	QR7	mg/kg dry	0.0294	0.204	BRL	95	75-125	21	20
Post Spike (1717185-PS1)			**Source: SC39977-08**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	**0.209**		mg/kg dry	0.0315	0.219	BRL	95	80-120		
Reference (1717185-SRM1)						Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Mercury	**2.03**	D	mg/kg wet	0.600	2.29		89	72.1-128.1		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SM2540 G (11) Mod.										
Batch 1716982 - General Preparation										
Duplicate (1716982-DUP1)			**Source: SC39977-01**			Prepared & Analyzed: 05-Oct-17				
% Solids	**83.8**		%			82.8			1	5
Duplicate (1716982-DUP2)			**Source: SC39977-02**			Prepared & Analyzed: 05-Oct-17				
% Solids	**89.1**		%			90.6			2	5

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8015D MOD										
Batch 404595A - 404595-SW80										
BLK (BZ15400-BLK)					Prepared & Analyzed: 06-Oct-17					
Ethanol	**ND**		mg/kg	1.0				-		
Isobutyl alcohol	**ND**		mg/kg	1.0				-		
Isopropyl alcohol	**ND**		mg/kg	1.0				-		
Methanol	**ND**		mg/kg	1.0				-		
n-Butanol	**ND**		mg/kg	1.0				-		
Propanol	**ND**		mg/kg	1.0				-		
Sec-Butanol	**ND**		mg/kg	1.0				-		
Surrogate: % 2-Pentanol(surr)	*112*		mg/kg		*10*			*70-130*		
LCS (BZ15400-LCS)					Prepared & Analyzed: 06-Oct-17					
Isobutyl alcohol	**10.39**		mg/kg	1.0	10		104	70-130		30
Isopropyl alcohol	**10.11**		mg/kg	1.0	10		101	70-130		30
Methanol	**9.698**		mg/kg	1.0	10		97	70-130		30
n-Butanol	**10.22**		mg/kg	1.0	10		102	70-130		30
Propanol	**10.08**		mg/kg	1.0	10		101	70-130		30
Sec-Butanol	**10.37**		mg/kg	1.0	10		104	70-130		30
Ethanol	**9.637**		mg/kg	1.0	10		96	70-130		30
Surrogate: % 2-Pentanol(surr)	*10.44*		mg/kg		*10*		*104*	*70-130*		
LCSD (BZ15400-LCSD)					Prepared & Analyzed: 06-Oct-17					
Isobutyl alcohol	**11.59**		%	%	10		116	70-130	10.9	30
Sec-Butanol	**11.57**		%	%	10		116	70-130	10.9	30
Propanol	**11.92**		%	%	10		119	70-130	16.4	30
n-Butanol	**12.04**		%	%	10		120	70-130	16.2	30
Isopropyl alcohol	**11.69**		%	%	10		117	70-130	14.7	30
Ethanol	**11.23**		%	%	10		112	70-130	15.4	30
Methanol	**11.60**		%	%	10		116	70-130	17.8	30
Surrogate: % 2-Pentanol(surr)	*10.30*		%		*10*		*103*	*70-130*		
MS (BZ15400-MS)			**Source: SC39977-05**		Prepared & Analyzed: 06-Oct-17					
n-Butanol	**13.05**	m	mg/kg	1.0	10	BRL	131	70-130		30
Ethanol	**12.61**		mg/kg	1.0	10	BRL	126	70-130		30
Sec-Butanol	**12.78**		mg/kg	1.0	10	BRL	128	70-130		30
Propanol	**12.73**		mg/kg	1.0	10	BRL	127	70-130		30
Methanol	**12.66**		mg/kg	1.0	10	BRL	127	70-130		30
Isobutyl alcohol	**12.89**		mg/kg	1.0	10	BRL	129	70-130		30
Isopropyl alcohol	**12.79**		mg/kg	1.0	10	BRL	128	70-130		30
Surrogate: % 2-Pentanol(surr)	*12.65*		mg/kg		*10*		*127*	*70-130*		
SW8081B										
Batch 404391A - 404391-										
BLK (BZ16154-BLK)					Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
Endosulfan II	**ND**	c1	ug/Kg	3.3				-		
Endosulfan I	**ND**	c1	ug/Kg	3.3				-		
Toxaphene	**ND**	c1	ug/Kg	130				-		
Methoxychlor	**ND**	c1	ug/Kg	3.3				-		
Heptachlor epoxide	**ND**	c1	ug/Kg	3.3				-		
Heptachlor	**ND**	c1	ug/Kg	3.3				-		
g-Chlordane	**ND**	c1	ug/Kg	3.3				-		
g-BHC	**ND**	c1	ug/Kg	1.0				-		
Endrin ketone	**ND**	c1	ug/Kg	3.3				-		
Endrin aldehyde	**ND**	c1	ug/Kg	3.3				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404391A - 404391-										
BLK (BZ16154-BLK)					Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
Endrin	**ND**	c1	ug/Kg	3.3				-		
4,4' -DDD	**ND**	c1	ug/Kg	1.7				-		
Endosulfan sulfate	**ND**	c1	ug/Kg	3.3				-		
d-BHC	**ND**	c1	ug/Kg	3.3				-		
Dieldrin	**ND**	c1	ug/Kg	1.0				-		
Chlordane	**ND**	c1	ug/Kg	33				-		
b-BHC	**ND**	c1	ug/Kg	1.0				-		
Aldrin	**ND**	c1	ug/Kg	1.0				-		
a-Chlordane	**ND**	c1	ug/Kg	3.3				-		
a-BHC	**ND**	c1	ug/Kg	1.0				-		
4,4' -DDT	**ND**	c1	ug/Kg	1.7				-		
4,4' -DDE	**ND**	c1	ug/Kg	1.7				-		
Surrogate: % TCMX	*97*	c1	ug/Kg		*100*			*40-140*		
Surrogate: % DCBP	*95*	c1	ug/Kg		*100*			*40-140*		
LCS (BZ16154-LCS)					Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
g-Chlordane	**45.74**	c1	ug/Kg	3.3	50		91	40-140		30
Endosulfan I	**45.79**	c1	ug/Kg	3.3	50		92	40-140		30
4,4' -DDT	**35.89**	c1	ug/Kg	1.7	50		72	40-140		30
a-BHC	**43.53**	c1	ug/Kg	1.0	50		87	40-140		30
a-Chlordane	**39.65**	c1	ug/Kg	3.3	50		79	40-140		30
Aldrin	**40.30**	c1	ug/Kg	1.0	50		81	40-140		30
4,4' -DDE	**39.06**	c1	ug/Kg	1.7	50		78	40-140		30
b-BHC	**40.82**	c1	ug/Kg	1.0	50		82	40-140		30
4,4' -DDD	**35.76**	c1	ug/Kg	1.7	50		72	40-140		30
Chlordane	**45.74**	c1	ug/Kg	33	50		91	40-140		30
d-BHC	**42.80**	c1	ug/Kg	3.3	50		86	40-140		30
Dieldrin	**41.68**	c1	ug/Kg	1.0	50		83	40-140		30
Endosulfan II	**45.73**	c1	ug/Kg	3.3	50		91	40-140		30
Endosulfan sulfate	**38.23**	c1	ug/Kg	3.3	50		76	40-140		30
Endrin	**46.52**	c1	ug/Kg	3.3	50		93	40-140		30
Endrin aldehyde	**34.59**	c1	ug/Kg	3.3	50		69	40-140		30
g-BHC	**43.29**	c1	ug/Kg	1.0	50		87	40-140		30
Heptachlor	**44.45**	c1	ug/Kg	3.3	50		89	40-140		30
Heptachlor epoxide	**43.62**	c1	ug/Kg	3.3	50		87	40-140		30
Toxaphene	**ND**	c1	ug/Kg	130	50		NA	40-140		30
Methoxychlor	**38.21**	c1	ug/Kg	3.3	50		76	40-140		30
Endrin ketone	**37.18**	c1	ug/Kg	3.3	50		74	40-140		30
Surrogate: % DCBP	*88.23*	c1	ug/Kg		*100*		*88*	*40-140*		
Surrogate: % TCMX	*89.95*	c1	ug/Kg		*100*		*90*	*40-140*		
LCSD (BZ16154-LCSD)					Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
4,4' -DDD	**37.13**	c1	%	%	50		74	40-140	2.7	30
Endosulfan II	**37.47**	c1	%	%	50		75	40-140	19.3	30
4,4' -DDE	**36.15**	c1	%	%	50		72	40-140	8.0	30
4,4' -DDT	**32.72**	c1	%	%	50		65	40-140	10.2	30
a-BHC	**39.52**	c1	%	%	50		79	40-140	9.6	30
a-Chlordane	**39.84**	c1	%	%	50		80	40-140	1.3	30
Aldrin	**37.14**	c1	%	%	50		74	40-140	9.0	30
b-BHC	**39.49**	c1	%	%	50		79	40-140	3.7	30
Chlordane	**42.41**	c1	%	%	50		85	40-140	6.8	30
d-BHC	**39.54**	c1	%	%	50		79	40-140	8.5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404391A - 404391-										
LCSD (BZ16154-LCSD)					Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
Dieldrin	**37.94**	c1	%	%	50		76	40-140	8.8	30
Endosulfan I	**39.07**	c1	%	%	50		78	40-140	16.5	30
Heptachlor epoxide	**40.49**	c1	%	%	50		81	40-140	7.1	30
Endosulfan sulfate	**35.16**	c1	%	%	50		70	40-140	8.2	30
Endrin	**42.32**	c1	%	%	50		85	40-140	9.0	30
Endrin aldehyde	**30.90**	c1	%	%	50		62	40-140	10.7	30
Endrin ketone	**33.70**	c1	%	%	50		67	40-140	9.9	30
g-BHC	**41.65**	c1	%	%	50		83	40-140	4.7	30
g-Chlordane	**42.41**	c1	%	%	50		85	40-140	6.8	30
Heptachlor	**41.37**	c1	%	%	50		83	40-140	7.0	30
Toxaphene	**ND**	c1	%	%	50		NA	40-140	NC	30
Methoxychlor	**35.15**	c1	%	%	50		70	40-140	8.2	30
Surrogate: % TCMX	*90.38*	c1	%		*100*		*90*	*40-140*		
Surrogate: % DCBP	*85.48*	c1	%		*100*		*85*	*40-140*		
MS (BZ16154-MS)			**Source: BZ16154**		Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
d-BHC	**38.35**	c1	ug/Kg	3.3	50		77	30-150		30
Toxaphene	**ND**	c1	ug/Kg	130	50		NA	30-150		30
Methoxychlor	**40.67**	c1	ug/Kg	3.3	50		81	30-150		30
Heptachlor epoxide	**45.63**	c1	ug/Kg	3.3	50		91	30-150		30
Heptachlor	**44.80**	c1	ug/Kg	3.3	50		90	30-150		30
g-Chlordane	**35.92**	c1	ug/Kg	3.3	50		72	30-150		30
g-BHC	**45.99**	c1	ug/Kg	1.0	50		92	30-150		30
Endrin ketone	**36.03**	c1	ug/Kg	3.3	50		72	30-150		30
Endrin aldehyde	**35.17**	c1	ug/Kg	3.3	50		70	30-150		30
Dieldrin	**41.02**	c1	ug/Kg	1.0	50		82	30-150		30
Endosulfan sulfate	**41.56**	c1	ug/Kg	3.3	50		83	30-150		30
4,4' -DDD	**36.45**	c1	ug/Kg	1.7	50		73	30-150		30
Endosulfan II	**46.20**	c1	ug/Kg	3.3	50		92	30-150		30
Chlordane	**140.6**	m, c1	ug/Kg	33	50		>200	30-150		30
b-BHC	**43.07**	c1	ug/Kg	1.0	50		86	30-150		30
Aldrin	**39.92**	c1	ug/Kg	1.0	50		80	30-150		30
a-Chlordane	**37.82**	c1	ug/Kg	3.3	50		76	30-150		30
a-BHC	**43.70**	c1	ug/Kg	1.0	50		87	30-150		30
4,4' -DDT	**42.34**	c1	ug/Kg	1.7	50		85	30-150		30
4,4' -DDE	**39.03**	c1	ug/Kg	1.7	50		78	30-150		30
Endrin	**49.17**	c1	ug/Kg	3.3	50		98	30-150		30
Endosulfan I	**43.90**	c1	ug/Kg	3.3	50		88	30-150		30
Surrogate: % TCMX	*93.51*	c1	ug/Kg		*100*		*94*	*30-150*		
Surrogate: % DCBP	*84.42*	c1	ug/Kg		*100*		*84*	*30-150*		
MSD (BZ16154-MSD)			**Source: BZ16154**		Prepared: 05-Oct-17 Analyzed: 07-Oct-17					
Endosulfan I	**39.97**	c1	%	%	50		80	30-150	9.5	30
4,4' -DDD	**37.01**	c1	%	%	50		74	30-150	1.4	30
4,4' -DDE	**38.16**	c1	%	%	50		76	30-150	2.6	30
4,4' -DDT	**42.71**	c1	%	%	50		85	30-150	0.0	30
a-BHC	**40.37**	c1	%	%	50		81	30-150	7.1	30
a-Chlordane	**37.40**	c1	%	%	50		75	30-150	1.3	30
Aldrin	**37.49**	c1	%	%	50		75	30-150	6.5	30
b-BHC	**42.15**	c1	%	%	50		84	30-150	2.4	30
Chlordane	**112.6**	m, c1	%	%	50		>200	30-150	NC	30
Dieldrin	**42.70**	c1	%	%	50		85	30-150	3.6	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404391A - 404391-										
MSD (BZ16154-MSD)			**Source: BZ16154**			Prepared: 05-Oct-17 Analyzed: 07-Oct-17				
Heptachlor	**42.55**	c1	%	%	50		85	30-150	5.7	30
Endosulfan II	**42.04**	c1	%	%	50		84	30-150	9.1	30
Endosulfan sulfate	**39.14**	c1	%	%	50		78	30-150	6.2	30
Endrin	**45.27**	c1	%	%	50		91	30-150	7.4	30
Endrin aldehyde	**30.28**	c1	%	%	50		61	30-150	13.7	30
Endrin ketone	**35.31**	c1	%	%	50		71	30-150	1.4	30
g-BHC	**40.27**	c1	%	%	50		81	30-150	12.7	30
g-Chlordane	**36.32**	c1	%	%	50		73	30-150	1.4	30
Heptachlor epoxide	**37.05**	c1	%	%	50		74	30-150	20.6	30
Toxaphene	**ND**	c1	%	%	50		NA	30-150	NC	30
d-BHC	**38.30**	c1	%	%	50		77	30-150	0.0	30
Methoxychlor	**36.69**	c1	%	%	50		73	30-150	10.4	30
Surrogate: % DCBP	*80.82*	c1	%		*100*		*81*	*30-150*		
Surrogate: % TCMX	*83.32*	c1	%		*100*		*83*	*30-150*		
Batch 404584A - 404584-										
BLK (BZ15917-BLK)						Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
g-Chlordane	**ND**		ug/Kg	3.3				-		
g-BHC	**ND**		ug/Kg	1.0				-		
Endrin ketone	**ND**		ug/Kg	3.3				-		
Endrin aldehyde	**ND**		ug/Kg	3.3				-		
Endrin	**ND**		ug/Kg	3.3				-		
Endosulfan sulfate	**ND**		ug/Kg	3.3				-		
Endosulfan II	**ND**		ug/Kg	3.3				-		
Endosulfan I	**ND**		ug/Kg	3.3				-		
Heptachlor	**ND**		ug/Kg	3.3				-		
Chlordane	**ND**		ug/Kg	33				-		
b-BHC	**ND**		ug/Kg	1.0				-		
Aldrin	**ND**		ug/Kg	1.0				-		
a-Chlordane	**ND**		ug/Kg	3.3				-		
a-BHC	**ND**		ug/Kg	1.0				-		
4,4' -DDT	**ND**		ug/Kg	1.7				-		
4,4' -DDE	**ND**		ug/Kg	1.7				-		
4,4' -DDD	**ND**		ug/Kg	1.7				-		
Toxaphene	**ND**		ug/Kg	130				-		
d-BHC	**ND**		ug/Kg	3.3				-		
Methoxychlor	**ND**		ug/Kg	3.3				-		
Heptachlor epoxide	**ND**		ug/Kg	3.3				-		
Dieldrin	**ND**		ug/Kg	1.0				-		
Surrogate: % TCMX	*68*		ug/Kg		*100*			*40-140*		
Surrogate: % DCBP	*64*		ug/Kg		*100*			*40-140*		
LCS (BZ15917-LCS)						Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
d-BHC	**42.54**		ug/Kg	3.3	50		85	40-140		30
Heptachlor	**39.73**		ug/Kg	3.3	50		79	40-140		30
Heptachlor epoxide	**42.93**		ug/Kg	3.3	50		86	40-140		30
g-Chlordane	**41.06**		ug/Kg	3.3	50		82	40-140		30
g-BHC	**44.16**		ug/Kg	1.0	50		88	40-140		30
Endrin ketone	**40.52**		ug/Kg	3.3	50		81	40-140		30
Endrin aldehyde	**36.76**		ug/Kg	3.3	50		74	40-140		30
Endrin	**42.83**		ug/Kg	3.3	50		86	40-140		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
LCS (BZ15917-LCS)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Endosulfan sulfate	**41.90**		ug/Kg	3.3	50		84	40-140		30
Endosulfan II	**44.50**		ug/Kg	3.3	50		89	40-140		30
Toxaphene	**ND**		ug/Kg	130	50		NA	40-140		30
Dieldrin	**37.29**		ug/Kg	1.0	50		75	40-140		30
Methoxychlor	**41.39**		ug/Kg	3.3	50		83	40-140		30
Chlordane	**41.06**		ug/Kg	33	50		82	40-140		30
b-BHC	**43.75**		ug/Kg	1.0	50		88	40-140		30
Aldrin	**39.62**		ug/Kg	1.0	50		79	40-140		30
a-Chlordane	**42.53**		ug/Kg	3.3	50		85	40-140		30
a-BHC	**45.97**		ug/Kg	1.0	50		92	40-140		30
4,4' -DDT	**51.25**		ug/Kg	1.7	50		103	40-140		30
4,4' -DDE	**41.10**		ug/Kg	1.7	50		82	40-140		30
4,4' -DDD	**44.07**		ug/Kg	1.7	50		88	40-140		30
Endosulfan I	**43.54**		ug/Kg	3.3	50		87	40-140		30
Surrogate: % TCMX	*85.19*		ug/Kg		*100*		*85*	*40-140*		
Surrogate: % DCBP	*80.92*		ug/Kg		*100*		*81*	*40-140*		
LCSD (BZ15917-LCSD)					Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
Heptachlor	**42.13**		%	%	50		84	40-140	6.1	30
b-BHC	**46.02**		%	%	50		92	40-140	4.4	30
g-BHC	**46.92**		%	%	50		94	40-140	6.6	30
Endrin ketone	**42.29**		%	%	50		85	40-140	4.8	30
Endrin aldehyde	**40.39**		%	%	50		81	40-140	9.0	30
Endrin	**45.74**		%	%	50		91	40-140	5.6	30
Endosulfan sulfate	**43.93**		%	%	50		88	40-140	4.7	30
Endosulfan II	**47.31**		%	%	50		95	40-140	6.5	30
Endosulfan I	**46.58**		%	%	50		93	40-140	6.7	30
Dieldrin	**46.05**		%	%	50		92	40-140	20.4	30
Heptachlor epoxide	**46.51**		%	%	50		93	40-140	7.8	30
Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
Aldrin	**42.11**		%	%	50		84	40-140	6.1	30
a-Chlordane	**45.32**		%	%	50		91	40-140	6.8	30
a-BHC	**47.49**		%	%	50		95	40-140	3.2	30
4,4' -DDT	**51.48**		%	%	50		103	40-140	0.0	30
4,4' -DDE	**44.70**		%	%	50		89	40-140	8.2	30
4,4' -DDD	**47.05**		%	%	50		94	40-140	6.6	30
g-Chlordane	**46.55**		%	%	50		93	40-140	12.6	30
Toxaphene	**ND**		%	%	50		NA	40-140	NC	30
Methoxychlor	**45.37**		%	%	50		91	40-140	9.2	30
d-BHC	**45.41**		%	%	50		91	40-140	6.8	30
Surrogate: % DCBP	*92.94*		%		*100*		*93*	*40-140*		
Surrogate: % TCMX	*91.37*		%		*100*		*91*	*40-140*		
MS (BZ15917-MS)			**Source: BZ15917**		Prepared: 06-Oct-17 Analyzed: 10-Oct-17					
4,4' -DDE	**39.45**		ug/Kg	1.7	50		69	30-150		30
Aldrin	**30.06**		ug/Kg	1.0	50		58	30-150		30
4,4' -DDD	**45.05**		ug/Kg	1.7	50		65	30-150		30
4,4' -DDT	**40.60**	r	ug/Kg	1.7	50		57	30-150		30
a-BHC	**36.16**		ug/Kg	1.0	50		71	30-150		30
a-Chlordane	**106.2**	r	ug/Kg	3.3	50		92	30-150		30
Toxaphene	**ND**		ug/Kg	130	50		NA	30-150		30
b-BHC	**28.74**		ug/Kg	1.0	50		57	30-150		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404584A - 404584-										
MS (BZ15917-MS)			**Source: BZ15917**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Chlordane	**70.40**		ug/Kg	33	50		78	30-150		30
d-BHC	**31.55**		ug/Kg	3.3	50		63	30-150		30
Dieldrin	**42.32**		ug/Kg	1.0	50		75	30-150		30
Endosulfan I	**35.23**		ug/Kg	3.3	50		68	30-150		30
Heptachlor	**34.13**		ug/Kg	3.3	50		67	30-150		30
Endosulfan II	**34.62**	r	ug/Kg	3.3	50		69	30-150		30
Methoxychlor	**37.16**		ug/Kg	3.3	50		74	30-150		30
Heptachlor epoxide	**35.23**		ug/Kg	3.3	50		70	30-150		30
g-Chlordane	**70.40**		ug/Kg	3.3	50		78	30-150		30
g-BHC	**33.56**		ug/Kg	1.0	50		67	30-150		30
Endrin ketone	**36.93**		ug/Kg	3.3	50		74	30-150		30
Endrin aldehyde	**37.60**		ug/Kg	3.3	50		68	30-150		30
Endrin	**41.03**		ug/Kg	3.3	50		82	30-150		30
Endosulfan sulfate	**32.63**		ug/Kg	3.3	50		64	30-150		30
Surrogate: % TCMX	*68.61*		ug/Kg		*100*		*69*	*30-150*		
Surrogate: % DCBP	*74.21*		ug/Kg		*100*		*74*	*30-150*		
MSD (BZ15917-MSD)			**Source: BZ15917**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Endrin ketone	**34.49**		%	%	50		69	30-150	7.0	30
Endosulfan sulfate	**38.83**		%	%	50		77	30-150	18.4	30
Endrin	**47.47**		%	%	50		95	30-150	14.7	30
Endrin aldehyde	**40.88**		%	%	50		74	30-150	8.5	30
Toxaphene	**ND**		%	%	50		NA	30-150	NC	30
g-BHC	**35.01**		%	%	50		70	30-150	4.4	30
g-Chlordane	**62.68**		%	%	50		61	30-150	24.5	30
Heptachlor	**38.06**		%	%	50		74	30-150	9.9	30
Endosulfan II	**48.45**	r	%	%	50		97	30-150	33.7	30
Methoxychlor	**41.12**		%	%	50		82	30-150	10.3	30
b-BHC	**26.94**		%	%	50		54	30-150	5.4	30
Heptachlor epoxide	**37.24**		%	%	50		74	30-150	5.6	30
Endosulfan I	**35.19**		%	%	50		68	30-150	0.0	30
d-BHC	**34.40**		%	%	50		69	30-150	9.1	30
4,4' -DDD	**55.02**		%	%	50		84	30-150	25.5	30
4,4' -DDE	**38.49**		%	%	50		67	30-150	2.9	30
4,4' -DDT	**56.58**	r	%	%	50		89	30-150	43.8	30
a-Chlordane	**90.99**	r	%	%	50		59	30-150	43.7	30
Aldrin	**32.59**		%	%	50		63	30-150	8.3	30
Chlordane	**62.68**		%	%	50		61	30-150	24.5	30
Dieldrin	**42.36**		%	%	50		75	30-150	0.0	30
a-BHC	**39.49**		%	%	50		77	30-150	8.1	30
Surrogate: % TCMX	*76.21*		%		*100*		*76*	*30-150*		
Surrogate: % DCBP	*73.79*		%		*100*		*74*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW6010C										
Batch 404447A - 404447-										
BLK (BZ15902-BLK)					Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Zinc	< 0.35		mg/kg	0.35				-		
Manganese	< 0.35		mg/kg	0.35				-		
Nickel	< 0.35		mg/kg	0.35				-		
Potassium	< 5.3		mg/kg	5.3				-		
Selenium	< 1.4		mg/kg	1.4				-		
Silver	< 0.35		mg/kg	0.35				-		
Sodium	< 5.3		mg/kg	5.3				-		
Vanadium	< 0.35		mg/kg	0.35				-		
Magnesium	< 5.3		mg/kg	5.3				-		
Cobalt	< 0.35		mg/kg	0.35				-		
Thallium	< 3.2		mg/kg	3.2				-		
Antimony	< 3.5		mg/kg	3.5				-		
Iron	**5.3**		mg/kg	5.3				-		
Lead	< 0.35		mg/kg	0.35				-		
Aluminum	< 5.3		mg/kg	5.3				-		
Arsenic	< 0.70		mg/kg	0.70				-		
Barium	< 0.35		mg/kg	0.35				-		
Beryllium	< 0.28		mg/kg	0.28				-		
Cadmium	< 0.35		mg/kg	0.35				-		
Calcium	< 5.3		mg/kg	5.3				-		
Chromium	< 0.35		mg/kg	0.35				-		
Copper	< 0.35		mg/kg	0.35				-		
DUP (BZ15902-DUP)			**Source: BZ15902**		Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Lead	**147**		mg/kg	0.40				-	37.1	30
Silver	< 0.40		mg/kg	0.40				-	NC	30
Sodium	**186**		mg/kg	5.9				-	29.6	30
Zinc	**207**		mg/kg	0.40				-	87.1	30
Selenium	< 1.6		mg/kg	1.6				-	NC	30
Potassium	**1160**		mg/kg	5.9				-	15.1	30
Nickel	**26.5**		mg/kg	0.40				-	8.3	30
Manganese	**278**		mg/kg	0.40				-	1.4	30
Magnesium	**3880**		mg/kg	5.9				-	28.6	30
Vanadium	**27.8**		mg/kg	0.40				-	13.4	30
Arsenic	**4.74**		mg/kg	0.79				-	6.1	30
Thallium	< 3.6		mg/kg	3.6				-	NC	30
Copper	**46.7**		mg/kg	0.40				-	53.5	30
Antimony	< 4.0		mg/kg	4.0				-	NC	30
Iron	**16200**		mg/kg	59				-	24.9	30
Barium	**132**		mg/kg	0.40				-	22.8	30
Beryllium	**0.47**		mg/kg	0.32				-	NC	30
Cadmium	**0.52**		mg/kg	0.40				-	NC	30
Calcium	**15400**		mg/kg	5.9				-	101.2	30
Chromium	**21.0**		mg/kg	0.40				-	0.9	30
Cobalt	**7.44**		mg/kg	0.40				-	10.8	30
Aluminum	**9600**		mg/kg	5.9				-	12.7	30
LCS (BZ15902-LCS)					Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Manganese	**312.9**		mg/kg	0.35	353		88.6	80-120		30
Nickel	**47.66**	I	mg/kg	0.35	61.2		77.9	80-120		30
Potassium	**2827**		mg/kg	5.3	3050		92.7	80-120		30
Selenium	**66.71**		mg/kg	1.4	73.7		90.5	80-120		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW6010C										
Batch 404447A - 404447-										
LCS (BZ15902-LCS)					Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Silver	**39.50**		mg/kg	0.35	48.1		82.1	70-130		30
Thallium	**53.00**	I	mg/kg	3.2	70.1		75.6	80-120		30
Magnesium	**2804**		mg/kg	5.3	3450		81.3	80-120		30
Iron	**18240**		mg/kg	5.3	16300		112	80-120		30
Sodium	**245.7**		mg/kg	5.3	300		81.9	80-120		30
Zinc	**139.6**		mg/kg	0.35	145		96.3	80-120		30
Barium	**204.1**		mg/kg	0.35	253		80.7	80-120		30
Lead	**81.98**		mg/kg	0.35	83.8		97.8	80-120		30
Vanadium	**141.8**		mg/kg	0.35	162		87.5	80-120		30
Arsenic	**91.29**	I	mg/kg	0.70	115		79.4	80-120		30
Aluminum	**8739**		mg/kg	5.3	10100		86.5	80-120		30
Beryllium	**135.7**		mg/kg	0.28	168		80.8	80-120		30
Cadmium	**77.51**	I	mg/kg	0.35	99.8		77.7	80-120		30
Calcium	**5814**		mg/kg	5.3	6780		85.8	80-120		30
Chromium	**103.0**	I	mg/kg	0.35	131		78.6	80-120		30
Cobalt	**115.1**	I	mg/kg	0.35	145		79.4	80-120		30
Copper	**162.8**		mg/kg	0.35	194		83.9	80-120		30
Antimony	**113.8**		mg/kg	3.5	133.2		85.4	70-130		30
MS (BZ15902-MS)			**Source: BZ15902**		Prepared: 05-Oct-17 Analyzed: 09-Oct-17					
Selenium	**112.1**		mg/kg	1.4	145.9		85.4	75-125		30
Manganese	**447.2**		mg/kg	0.35	145.9		122	75-125		30
Nickel	**164.2**		mg/kg	0.35	145.9		95.8	75-125		30
Potassium	**2919**	m	mg/kg	5.3	729.6		>130	75-125		30
Silver	**37.18**		mg/kg	0.35	36.48		102	75-125		30
Sodium	**413.1**	m	mg/kg	5.3	145.9		>130	75-125		30
Thallium	**714.7**		mg/kg	3.2	729.6		98.3	75-125		30
Magnesium	**3667**		mg/kg	5.3	145.9		NC	75-125		30
Zinc	**241.2**		mg/kg	0.35	145.9		110	75-125		30
Cadmium	**140.1**		mg/kg	0.35	145.9		95.8	75-125		30
Vanadium	**175.1**		mg/kg	0.35	145.9		98.2	75-125		30
Antimony	**258.9**		mg/kg	3.5	291.8		89.1	75-125		30
Chromium	**168.1**		mg/kg	0.35	145.9		101	75-125		30
Aluminum	**16430**		mg/kg	5.3	145.9		NC	75-125		30
Lead	**398.1**		mg/kg	0.35	291.8		102	75-125		30
Arsenic	**277.3**		mg/kg	0.70	291.8		93.5	75-125		30
Barium	**271.0**		mg/kg	0.35	145.9		114	75-125		30
Beryllium	**142.0**		mg/kg	0.28	145.9		97.0	75-125		30
Calcium	**8061**		mg/kg	5.3	145.9		NC	75-125		30
Cobalt	**150.4**		mg/kg	0.35	145.9		97.4	75-125		30
Copper	**190.4**		mg/kg	0.35	145.9		112	75-125		30
Iron	**19150**		mg/kg	5.3	145.9		NC	75-125		30
SW7471B										
Batch 404512A - 404512-										
BLK (BZ13735-BLK)					Prepared & Analyzed: 06-Oct-17					
Mercury	< 0.02		mg/kg	0.02				-		
DUP (BZ13735-DUP)			**Source: BZ13735**		Prepared & Analyzed: 06-Oct-17					
Mercury	< 0.03		mg/kg	0.03				-	NC	30
LCS (BZ13735-LCS)					Prepared & Analyzed: 06-Oct-17					
Mercury	**0.1573**		mg/kg	0.02	0.1538		102	75-125		30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW7471B										
Batch 404512A - 404512-										
LCSD (BZ13735-LCSD)					Prepared & Analyzed: 06-Oct-17					
Mercury	**0.1490**		%		0.1471		101	75-125	1.0	30
MS (BZ13735-MS)			**Source: BZ13735**		Prepared & Analyzed: 06-Oct-17					
Mercury	**0.1883**		mg/kg	0.02	.16129037		107	75-125		30

Analyte(s)	Column	% Breakdown	Limit

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC39977-01	*UST CS-1*	10/2/2017 3:50 PM
SC39977-02	*UST CS-2*	10/2/2017 3:50 PM
SC39977-03	*UST CS-3*	10/2/2017 3:50 PM
SC39977-04	*UST CS-4*	10/2/2017 3:50 PM
SC39977-05	*UST CS-5*	10/2/2017 3:50 PM
SC39977-06	*UST CS-6*	10/2/2017 3:50 PM
SC39977-07	*UST CS-7*	10/2/2017 3:50 PM
SC39977-08	*UST EX-8*	10/2/2017 3:50 PM
SC39977-09	*UST EX-9*	10/2/2017 3:50 PM
SC39977-10	*UST EX-10*	10/2/2017 3:50 PM

Notes and Definitions

c1	[Undefined]
c1	Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.
D	Data reported from a dilution
E	This flag indicates the concentration for this analyte is an estimated value due to exceeding the calibration range or interferences resulting in a biased final concentration.
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
l	This parameter is outside laboratory lcs/lcsd specified recovery limits.
m	This parameter is outside laboratory ms/msd specified recovery limits.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR7	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for batch duplicate.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
r	This parameter is outside laboratory rpd specified recovery limits.
R01	The Reporting Limit has been raised to account for matrix interference.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes; sample may not meet client requested reporting limit for this reason.
SGCMSVOC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC39977 · 8y

eurofins | Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 1 of ___

Special Handling:
- [x] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: ___

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

Report To: Day Environmental, Inc
1563 Lyell Avenue
Rochester NY 14606

Telephone #: 585 454 0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o Sol Epoxy Inc
211 Franklin St
Olean, NY 14760

P.O No.: 8696 Quote #: ___

Project No: 48845-13
Site Name: C905043 (202 Franklin St)
Location: Olean State: NY
Sampler(s): C. Hampton

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= Methanol 12= ___

9/11

List Preservative Code below:

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= ___ X2= ___ X3= ___

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: Full List VOC + TICs	Full List SVOC + TICs	TAL Metals	PCB (8082)	Pesticides (8081)	Alcohols (8015)	Check if chlorinated
SC39977-01	UST CS-1	9/28/17	08:10	G	SO	3	1			x						☐
02	UST CS-2		08:20	G	SO	3	1			x						☐
03	UST CS-3		08:30	G	SO	3	1			x						☐
04	UST CS-4		08:40	G	SO	3	1			x						☐
05	UST CS-5		08:50	G	SO	3	1			x					x	☐
06	UST CS-6		09:00	G	SO	3	1			x					x	☐
07	UST CS-7		09:40	G	SO	3	1			x					x	☐
08	UST EX-8		13:53	G	SO	3	2			x	x	x	x	x		☐
09	UST EX-9		14:25	G	SO	3	2			x	x	x	x	x	x	☐
10	UST EX-10		15:45	G	SO	3	2			x	x	x	x	x	x (Do not test)	☐

Create 4:1 composite and test single sample for tests indicated -12

Note: Samples were frozen on 9/28/17

Also Run Trip Blanks for VOCs

Relinquished by:	Received by:	Date:	Time:
Cyntia Smith		10/2/17	15:50
		10/3/17	1229

Temp °C: Observed 2.2; Correction Factor 0; Corrected 2.2; IR ID # CA5 3 10/2/17

- [x] EDD format: NYSDEC EQUIS -11
- [ ] E-mail to: ___

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☒ VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA* ☒ ASP B* ☐ ASP A* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV*
☐ Other: ___
State-specific reporting standards:

4/0/4/12

Batch Summary

'[none]'

Subcontracted Analyses

SC39977-05 (UST CS-5)
SC39977-06 (UST CS-6)
SC39977-07 (UST CS-7)
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)
SC39977-12 (UST CS-COMP)

1716926

Semivolatile Organic Compounds by GCMS

1716926-BLK1
1716926-BS1
1716926-BSD1
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)
SC39977-12 (UST CS-COMP)

1716982

General Chemistry Parameters

1716982-DUP1
1716982-DUP2
SC39977-01 (UST CS-1)
SC39977-02 (UST CS-2)
SC39977-03 (UST CS-3)
SC39977-04 (UST CS-4)
SC39977-05 (UST CS-5)
SC39977-06 (UST CS-6)
SC39977-07 (UST CS-7)
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)

1717010

General Chemistry Parameters

SC39977-12 (UST CS-COMP)

1717019

General Chemistry Parameters

SC39977-12 (UST CS-COMP)

1717131

Volatile Organic Compounds

1717131-BLK1
1717131-BS1
1717131-BSD1
SC39977-02 (UST CS-2)
SC39977-03 (UST CS-3)
SC39977-04 (UST CS-4)
SC39977-05 (UST CS-5)
SC39977-06 (UST CS-6)
SC39977-07 (UST CS-7)

1717183

Semivolatile Organic Compounds by GC

1717183-BLK1
1717183-BS1
1717183-BSD1
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)
SC39977-12 (UST CS-COMP)

1717184

Total Metals by EPA 6000/7000 Series Methods

1717184-BLK1
1717184-DUP1
1717184-MS1
1717184-MSD1
1717184-PS1
1717184-SRM1
1717184-SRM2
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)

1717185

Total Metals by EPA 6000/7000 Series Methods

1717185-BLK1
1717185-DUP1
1717185-MS1
1717185-MSD1
1717185-PS1
1717185-SRM1
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)

1717197

Volatile Organic Compounds

1717197-BLK1
1717197-BS1
1717197-BSD1
SC39977-01 (UST CS-1)

1717290

Volatile Organic Compounds

1717290-BLK1
1717290-BS1
1717290-BSD1
SC39977-07RE1 (UST CS-7)
SC39977-09 (UST EX-9)
SC39977-11RE1 (Trip Blank)

1717293

Volatile Organic Compounds

1717293-BLK1
1717293-BS1
1717293-BSD1
SC39977-11 (Trip Blank)

1717335

Volatile Organic Compounds

1717335-BLK1
1717335-BS1
1717335-BSD1
SC39977-09RE1 (UST EX-9)
SC39977-10 (UST EX-10)

1717338

Volatile Organic Compounds

1717338-BLK1
1717338-BS1
1717338-BSD1
SC39977-08 (UST EX-8)

1717431

Total Metals by EPA 6000/7000 Series Methods

1717431-BLK1
1717431-DUP1
1717431-MS1
1717431-MSD1
1717431-PS1
1717431-SRM1
1717431-SRM2
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)

404391A

Subcontracted Analyses

BZ16154-BLK
BZ16154-LCS
BZ16154-LCSD
BZ16154-MS
BZ16154-MSD
SC39977-08 (UST EX-8)
SC39977-09 (UST EX-9)
SC39977-10 (UST EX-10)

404447A

Subcontracted Analyses

BZ15902-BLK
BZ15902-DUP
BZ15902-LCS
BZ15902-MS
SC39977-12 (UST CS-COMP)

404512A

Subcontracted Analyses

BZ13735-BLK
BZ13735-DUP
BZ13735-LCS
BZ13735-LCSD
BZ13735-MS
SC39977-12 (UST CS-COMP)

404584A

Subcontracted Analyses

BZ15917-BLK
BZ15917-LCS
BZ15917-LCSD
BZ15917-MS
BZ15917-MSD
SC39977-12 (UST CS-COMP)

404595A

Subcontracted Analyses

BZ15400-BLK
BZ15400-LCS
BZ15400-LCSD
BZ15400-MS
SC39977-05 (UST CS-5)
SC39977-06 (UST CS-6)
SC39977-07 (UST CS-7)
SC39977-09 (UST EX-9)
SC39977-12 (UST CS-COMP)

S705626

Semivolatile Organic Compounds by GC

S705626-CAL1
S705626-CAL2
S705626-CAL3
S705626-CAL4
S705626-CAL5
S705626-CAL6
S705626-CAL7
S705626-CAL8
S705626-CAL9
S705626-CALA
S705626-CALB
S705626-CALC
S705626-CALD
S705626-CALE
S705626-CALF
S705626-CALG
S705626-CALH
S705626-CALI
S705626-CALJ
S705626-CALK
S705626-CALL
S705626-CALM
S705626-CALN
S705626-CALO
S705626-CALP
S705626-CALQ
S705626-CALR
S705626-CALS
S705626-CALT
S705626-CALU
S705626-ICV1
S705626-ICV2
S705626-ICV3
S705626-ICV4
S705626-ICV5
S705626-ICV6
S705626-LCV1
S705626-LCV2
S705626-LCV3
S705626-LCV4
S705626-LCV5
S705626-LCV6

S708282

Semivolatile Organic Compounds by GCMS

S708282-CAL1
S708282-CAL2
S708282-CAL3
S708282-CAL4
S708282-CAL5
S708282-CAL6
S708282-CAL7
S708282-CAL8
S708282-CAL9
S708282-CALA
S708282-ICV1
S708282-LCV1
S708282-LCV2
S708282-TUN1

S708708

Volatile Organic Compounds

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S708827

Volatile Organic Compounds

S708827-CAL1
S708827-CAL2
S708827-CAL3
S708827-CAL4
S708827-CAL5
S708827-CAL6
S708827-CAL7
S708827-CAL8
S708827-CAL9
S708827-ICV1
S708827-LCV1
S708827-LCV2
S708827-TUN1

S708901

Volatile Organic Compounds

S708901-CCV1
S708901-TUN1

S708922

Semivolatile Organic Compounds by GCMS

S708922-CCV1
S708922-TUN1

S708932

Volatile Organic Compounds

S708932-CCV1
S708932-TUN1

S708970

Volatile Organic Compounds

S708970-CCV1
S708970-TUN1

S708971

Volatile Organic Compounds

S708971-CCV1
S708971-TUN1

S709003

Volatile Organic Compounds

S709003-CCV1
S709003-TUN1

S709007

Volatile Organic Compounds

S709007-CCV1
S709007-TUN1

S709011

Semivolatile Organic Compounds by GC

S709011-CCV1
S709011-CCV2
S709011-CCV3
S709011-CCV4
S709011-IBL1
S709011-IBL2
S709011-IBL3

S709024

Semivolatile Organic Compounds by GC

S709024-CCV1
S709024-CCV2
S709024-CCV3
S709024-CCV4
S709024-IBL1
S709024-IBL2

Data Usability Summary Report

Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

202 Franklin St. #4884S-13
Eurofins/Spectrum Analytical SDG#SC39977
March 14, 2018
Sampling date: 9/28/2017

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package, for Day Environmental, project located at 202 Franklin St. #4884S-13, Eurofins/Spectrum Analytical (Eurofins) SDG#SC39977 submitted to Vali-Data of WNY, LLC on February 12, 2018. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Inorganics (6010C), Mercury (7471B) and in accordance with wet chemistry methods.

The analysis of Pesticides and Metals on sample, UST CS-COMP, was subcontracted to Phoenix Environmental Laboratories, Inc., SDG#GBZ15974.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Laboratory Control Samples, Initial Calibration and Continuing Calibration.

Samples, UST EX-9, UST CS-7 were diluted due to high target analyte concentrations.
Sample, UST EX-8 was diluted to high non-target analyte concentrations.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met except the %Rec of 1,2-Dichloroethane-d_4 was outside ASP QC limits, high in 1717131-BLK1, UST CS-2, UST CS-7, UST CS-1, 1717197-BLK1, 1717293-BLK1, TRIP BLANK, 1717335-BLK1, UST EX9RE1 and UST EX-10. Associated target analytes detected in these samples should be qualified as estimated high.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Acetone was outside QC limits, high in 1717131-BS1/BSD1. The %Rec of Tert-amyl methyl ether was outside QC limits, high in 1717197-BS1/BSD1 and 1717335-BS1/BSD1. The %Rec of Bromomethane was outside QC limits, high in 1717338-BS1/BSD1. These target analytes should be qualified as estimated in the associated samples and laboratory control samples, if detected.
The %Rec of 1,4-Dioxane was outside QC limits, low in 1717197-BS1/BSD1. The %Rec of 2,2-Dichloropropane and trans-1,4-Dichloro-2-Butene was outside QC limits, low in 1717293-BS1/BSD1 and 1717335-BS1/BSD1. The %RPD of 4-Methyl-2-Pentanone was outside QC limits between 1717131-BS1 and 1717131-BSD1. These target analytes should be qualified as estimated in the associated samples and laboratory control samples.
Several target analytes were outside QC limits in the laboratory control sample or the duplicate but not both, so no further action is required.

MS/MSD
No MS/MSD was acquired for these samples.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met except the RRF of 1,4-Dioxane and Ethanol was outside outer ASP QC limits in the initial calibrations and should be qualified as estimated in the blanks, spikes and samples.
The RRF of Trichloroethene was outside ASP QC limits in the initial calibrations. ASP allows for up to two target analytes to be outside QC limits without further action.
Alternate forms of regression were performed on all target analytes whose %RSD >20%, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the RRF of 1,4-Dioxane and Ethanol was outside outer ASP QC limits in all of the continuing calibrations. The %D of Acetone and Tert-amyl methyl ether was outside ASP outer QC limits in S708932-CCV1. The %D of Vinyl chloride was outside ASP outer QC limits in S708970-CCV1. The %D of Acetone was outside ASP outer QC limits in S708971-CCV1. The %D of Bromomethane was outside ASP outer QC limits in S709007-CCV1. The %D of Bromoform, trans-1,3-Dichloropropene and Vinyl Chloride was outside QC limits in S709003-CCV1. These target analytes should be qualified as estimated in the associated blanks, spikes and samples.
The RRF of Trichloroethene was outside QC limits in all of the continuing calibrations. The %D of Vinyl Chloride in S708901-CCV1 was outside QC limits. The %D of Bromoform in S708932-CCV1 and S708971-CCV1 was outside QC limits. The %D of Bromomethane in S708970-CCV1 was outside QC limits. ASP allows for up to two target analytes to be outside QC limits without further action.
Several target analytes were outside laboratory QC limits but within ASP limits, so no further action is required.

GC/MS PERFORMANCE CHECK
All criteria were met.

SEMIVOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank

- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Laboratory Control Samples.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except the 'Analysis sequence' for the samples was not included in the original package. That page is attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the sample were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except two TIC's were detected in 1716926-BLK1. Those TIC's were not detected in the samples, so no further action is required.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %Rec of Benzoic acid, Bis(2-chloroethoxy)methane, Bis(2-chloroisopropyl)ether and Pyridine was outside QC limits, low in 1716926-BS1/BSD1 and should be qualified as estimated in the associated samples and laboratory control samples.
The RPD of Benzidine between 1716926-BS1 and 1716926-BSD1 was outside QC limits and should be qualified as estimated in the associated samples and laboratory control samples.

MS/MSD
No MS/MSD was acquired for these samples.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.
Alternate forms of regression were performed on all target analytes whose %RSD >20%, with acceptable results.

CONTINUING CALIBRATION
All criteria were met except the RRF of 2-Methylphenol and N-Nitrosodi-n-propylamine was outside QC limits in S708922-CCV1. The %D of 4-Chlorophenyl phenyl ether was outside QC limits in S708922-CCV1. ASP allows for up to four target analytes to be outside QC limits without further action.

GC/MS PERFORMANCE CHECK
All criteria were met.

PESTICIDES

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration

- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Internal Standard, Laboratory Control Samples and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

INTERNAL STANDARD (IS)
All criteria were met except the area of 1-Bromo-2-Nitrobenzene was outside QC limits, high off column CLP in UST CS-COMP. Associate target analytes detected in this sample should be qualified as estimated low.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met except the %RPD of Dieldrin and Endrin aldehyde was outside QC limits, between the columns in BZ15917LCS and should be qualified as estimated.

MS/MSD
No MS/MSD was acquired for these samples.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except the %D of Methoxychlor in file #O09A044 and 4,4'-DDT, Methoxychlor and DCBP in file #O09A068 were outside QC limits off column CLP. These target analytes should be qualified as estimated off the associated column in the associated sample, blank and spikes.

PCB

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use.

All samples were diluted due to matrix interference.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
No MS/MSD was acquired for these samples.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

METALS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports

-Holding Times
-Blanks
-Laboratory Control Sample
-MS/MSD
-Duplicate
-Field Duplicate
-Serial Dilution
-Compound Quantitation
-Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use but are qualified below in Blanks, Laboratory Control Samples, MS/MSD, Duplicate, Serial Dilution and Calibration.

All samples were diluted due to high target analyte concentrations

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

BLANKS
All criteria were met except Be and Cd were detected above the MDL, below the reporting limit and are qualified as estimated in S816223-CCB1. Na and Ca were detected above the MDL, below the reporting limit in 1717431-BLK1 and are qualified as estimated. Fe was detected above the MDL, below the reporting limit in BZ13735 BLK and should be qualified as estimated. Se was detected above the MDL, below the reporting limit in CCB5, CCB6 and CCB7 run on 10/9/17 and is qualified as estimated. Al was detected above the MDL, below the reporting limit in CCB6 run on 10/9/17 and is qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high.

LABORATORY CONTROL SAMPLE

All criteria were met except the %Rec of Sb was outside ASP QC limits, low in 1717184-SRM1 and SRM2 and should be qualified as estimated in the associated samples and 1717184-SRM1 and SRM2.

Some target analytes were outside laboratory QC limits, but within ASP limits, so no further action is required.

MS/MSD

All criteria were met except the %Rec of Mn, K and Ca was outside QC limits, high in UST EX-8MS/MSD but within QC limits in the post digest spike. These target analytes should be qualified as estimated in UST EX-8, UST EX-8DUP and UST EX-8MS/MSD, if detected.

The %Rec of Mg, Fe and Al was outside QC limits, high in UST EX-8MS/MSD and in the post digest spike. These target analytes should be qualified as estimated high in UST EX-8, UST EX-8DUP and UST EX-8MS/MSD, if detected.

The %Rec of Pb, Ni, Zn, Sb, Cd and Co was outside QC limits, low in UST EX-8MS/MSD and in the post digest spike. These target analytes should be qualified as estimated low in UST EX-8, UST EX-8DUP and UST EX-8MS/MSD, if detected and undetected estimated, if not detected.

The %RPD of Mg and Hg was outside QC limits between UST EX-8MS and UST EX-8MS/MSD and should be qualified as estimated in UST EX-8, UST EX-8DUP and UST EX-8MS/MSD.

DUPLICATE

All criteria were met except the %RPD of Se, Sb and Be between UST EX-8 and UST EX-8DUP was outside QC limits. These target analytes should be qualified as estimated in UST EX-8 and UST EX-8DUP.

FIELD DUPLICATE

No field duplicate was acquired.

SERIAL DILUTION

All criteria were met except the %D of Ni, Zn, Co, Mn, Mg, K, Al, Ba, Fe and Cu was outside QC limits in the serial dilution performed on UST EX-8. These target analytes should be qualified as estimated in the serial dilution, UST EX-8 and UST EX-8DUP.

Cd was detected in UST EX-8DUP but was not detected in UST EX-8.

COMPOUND QUANTITATION

All criteria were met.

CALIBRATION

All criteria were met except the %Rec of K was outside QC limits in the ICP interference check sample performed at 19:50 and 20:49 on 10/9/17. This target analyte should be qualified as estimated in the associated sample, blank and spikes.

GENERAL CHEMISTRY

The following items/criteria were reviewed for this analytical suite:

- %Solids

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

%SOLIDS
All criteria were met.

APPENDIX I

GRAVEL FILL DOCUMENTATION

NYSDEC APPROVAL FOR GRAVEL FILL

Charles Hampton

From: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Sent: Monday, October 02, 2017 2:57 PM
To: Charles Hampton
Subject: RE: Grain Size Analysis: Proposed Backfill Material 202 Franklin Street, Olean, New York

Yes, material source approved for use at 202 Franklin St Site from 4581 Lower Birch Run Road Gravel Pit, Allegany, NY.

Anthony L. Lopes, P.E.
Professional Engineer 1
Department of Environmental Conservation
Division of Environmental Remediation
Region 9, Buffalo, NY 14203
Anthony.lopes@dec.ny.gov
716-851-7220

From: Charles Hampton [mailto:champton@daymail.net]
Sent: Monday, October 02, 2017 2:20 PM
To: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Subject: FW: Grain Size Analysis: Proposed Backfill Material 202 Franklin Street, Olean, New York

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Tony,
This is a reminder email. Will you send an approval email for the backfill material for the 202 Franklin Site? I am re-attaching the Grain Size analysis report. The material source is the gravel pit at 4581 Lower Birch Run Road, Allegany NY.

Thanks,
Charles

From: Charles Hampton
Sent: Wednesday, September 27, 2017 7:05 AM
To: Lopes, Anthony (DEC)
Cc: Ray Kampff
Subject: RE: Grain Size Analysis: Proposed Backfill Material 202 Franklin Street, Olean, New York

Tony,

Please send an email indicating the Department's approval of the proposed backfill material for the 202 Franklin Street, Olean, New York (C905043) site, if acceptable.

Thanks,
Charles

From: Ray Kampff
Sent: Tuesday, September 26, 2017 11:16 AM
To: Lopes, Anthony (DEC)
Cc: Charles Hampton
Subject: Grain Size Analysis: Proposed Backfill Material 202 Franklin Street, Olean, New York

Tony

Attached is a copy of the above-referenced document for your records.

Ray

Raymond Kampff
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606
Phone: (585) 454-0210 x108
Fax: (585) 454-0825
rkampff@daymail.net

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Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	53.8	16.3	6.3	13.6	8.4	1.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			52.4928	37.8809	22.3269	4.7861	0.7381	0.4259	1.42	88.94

Material Description	USCS	AASHTO
○ Sandy Gravel	GW	

Project No. T098-006 **Client:** CCT Labs

Project: Solepoxy

○ **Location:** On-Site **Sample Number:** #1

Remarks:

GeoTech Engineering Services, Inc.

Morrisdale, Pennsylvania

Figure

Tested By: ASY **Checked By:** JLS

GRAIN SIZE DISTRIBUTION TEST DATA

9/25/2017

Client: CCT Labs
Project: Solepoxy
Project Number: T098-006
Location: On-Site
Sample Number: #1
Material Description: Sandy Gravel
USCS Classification: GW
Tested by: ASY **Checked by:** JLS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
2230.50	0.00	3	0.00	0.00	100.0
		2	385.00	0.00	82.7
		1.5	500.00	0.00	60.3
		1	178.60	0.00	52.3
		.75	135.60	0.00	46.2
		.5	159.30	0.00	39.1
		.375	77.60	0.00	35.6
		#4	126.40	0.00	29.9
		#8	111.40	0.00	25.0
		#10	30.40	0.00	23.6
		#20	161.40	0.00	16.4
		#40	142.10	0.00	10.0
		#60	64.90	0.00	7.1
		#100	37.80	0.00	5.4
		#140	25.90	0.00	4.2
		#200	57.50	0.00	1.6

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	53.8	16.3	70.1	6.3	13.6	8.4	28.3			1.6

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.1297	0.4259	0.7381	1.2895	4.7861	13.5417	22.3269	37.8809	49.0033	52.4928	57.2745	64.5429

Fineness Modulus	C_u	C_c
6.57	88.94	1.42

BILLS OF LADDING FOR GRAVEL FILL



BIRCH RUN GRAVEL PIT

Richard L. Peck Construction, Inc.
Office: 63 South 7th St., Allegany, NY 14706
Phone: (716) 373-2006
Pit Location: Birch Run Rd., Allegany, NY 14706

November 28, 2017

Job Name: Solepoxy, 202 Franklin St., Olean, NY
Imported cover soil (Sc. Bank Run)

11/2/2017	Sc. Bank Run		202.50	ton	135.0 yds
11/7/2017	Sc. Bank Run		364.50	ton	243.0 yds
11/8/2017	Sc. Bank Run		526.50	ton	351.0 yds
11/9/2017	Sc. Bank Run		425.25	ton	283.5 yds
11/10/2017	Sc. Bank Run		668.25	ton	445.5 yds
11/13/2017	Sc. Bank Run		567.00	ton	378.0 yds
11/14/2017	Sc. Bank Run		283.50	ton	189.0 yds
11/15/2017	Sc. Bank Run		465.75	ton	310.5 yds
11/27/2017	Sc. Bank Run		627.75	ton	418.5 yds
11/28/2017	Sc. Bank Run		60.75	ton	40.5 yds
		TOTAL	**4,191.75**	**ton**	**2794.5 yds**



BIRCH RUN GRAVEL PIT

Richard L. Peck Construction, Inc.
Office: 63 South 7th St., Allegany, NY 14706
Phone: (716) 373-2006
Pit Location: Birch Run Rd., Allegany, NY 14706

September 29, 2017

Job Name: Solepoxy, 202 Franklin St., Olean, NY
Sc. Bank Run/Backfill for metal waste area excavation

9/29/2017	Sc. Bank Run	121.50 ton (81.00 yds)	TOTAL



BIRCH RUN GRAVEL PIT

Richard L. Peck Construction, Inc.
Office: 63 South 7th St., Allegany, NY 14706
Phone: (716) 373-2006
Pit Location: Birch Run Rd., Allegany, NY 14706

November 28, 2017

Job Name: Solepoxy, 202 Franklin St., Olean, NY
Tank Removal/Backfilling

9/29/2017	Bank Run	162.0 ton (108.0 yds)	TOTAL

TEST RESULTS FOR GRAVEL FILL

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
12-Oct-17 15:43

Laboratory Report
SC39794

Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606
Attn: Charles Hampton

Project: 4581 Lower Birch Run Rd - Alleghany, NY
Project #: 4884S-13

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Kimberly Laplante
Quality Assurance Manager

Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 51 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our 'Quality' web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC39794

Project: 4581 Lower Birch Run Rd - Alleghany, NY

Project Number: 4884S-13

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC39794-01	Soil Pile-1	Soil	25-Sep-17 12:15	28-Sep-17 09:34
SC39794-02	Soil Pile-2	Soil	25-Sep-17 12:30	28-Sep-17 09:34
SC39794-03	Soil Pile-3	Soil	25-Sep-17 12:45	28-Sep-17 09:34
SC39794-04	Soil Pile-Comp	Soil	25-Sep-17 00:00	28-Sep-17 09:34
SC39794-05	Trip Blank	Deionized Water	25-Sep-17 00:00	28-Sep-17 09:34

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 4.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

VOA vials preserved with deionized water were received frozen upon custody transfer to laboratory representative.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Sample Compositing Narrative:

Sample SC39794-04 Container A was composited on October 02, 2017 per client request from: SC39794-01 Container E 149.98g; SC39794-02 Container E 149.56g; SC39794-03 Container D 150.09g.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW8081B

Laboratory Control Samples:

BZ15281-LCS

SW8081B

Laboratory Control Samples:

BZ15281-LCS

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

BZ15281-BLK

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

BZ15281-LCSD

SW8081B

BZ15281-LCSD

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

- % DCBP
- % TCMX
- 4,4' -DDD
- 4,4' -DDE
- 4,4' -DDT
- a-BHC
- a-Chlordane
- Aldrin
- b-BHC
- Chlordane
- d-BHC
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- g-BHC
- g-Chlordane
- Heptachlor
- Heptachlor epoxide
- Methoxychlor
- Toxaphene

BZ15281-MS

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

- % DCBP
- % TCMX
- 4,4' -DDD
- 4,4' -DDE
- 4,4' -DDT
- a-BHC
- a-Chlordane
- Aldrin
- b-BHC
- Chlordane
- d-BHC
- Dieldrin
- Endosulfan I
- Endosulfan II
- Endosulfan sulfate
- Endrin
- Endrin aldehyde
- Endrin ketone
- g-BHC
- g-Chlordane
- Heptachlor
- Heptachlor epoxide
- Methoxychlor
- Toxaphene

BZ15281-MSD

SW8081B

BZ15281-MSD

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

% DCBP
% TCMX
4,4' -DDD
4,4' -DDE
4,4' -DDT
a-BHC
a-Chlordane
Aldrin
b-BHC
Chlordane
d-BHC
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
g-BHC
g-Chlordane
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene

SW846 6010C

Spikes:

1717061-MS1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Calcium
Iron

1717061-MSD1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Calcium
Iron

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Silver

1717061-PS1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Aluminum
Calcium
Iron

SW846 6010C

Spikes:

1717245-MSD1 *Source: SC39794-04*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Potassium

1717246-MS1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium

1717246-MSD1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium

1717246-PS1 *Source: SC39794-04*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Magnesium

1717358-MS1 *Source: SC39794-04*

The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Manganese

1717358-MSD1 *Source: SC39794-04*

The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

Manganese

Duplicates:

1717061-DUP1 *Source: SC39794-04*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Beryllium
Cadmium

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Aluminum

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Calcium
Chromium
Iron
Vanadium

1717245-DUP1 *Source: SC39794-04*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Arsenic

SW846 6010C

Duplicates:

1717358-DUP1 *Source: SC39794-04*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Manganese

SW846 8260C

Calibration:

1710003

Analyte quantified by quadratic equation type calibration.

1,4-Dioxane
2-Hexanone (MBK)
Naphthalene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1716747-BLK1
1716747-BS1
1716747-BSD1
S708677-CCV1
S708708-ICV1
Soil Pile-1
Soil Pile-2
Soil Pile-3
Trip Blank

Laboratory Control Samples:

1716747 BS/BSD

1,2-Dibromo-3-chloropropane percent recoveries (68/70) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Soil Pile-1
Soil Pile-2
Soil Pile-3
Trip Blank

Tert-Butanol / butyl alcohol percent recoveries (80/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Soil Pile-1
Soil Pile-2
Soil Pile-3
Trip Blank

trans-1,4-Dichloro-2-butene percent recoveries (69/62) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

Soil Pile-1
Soil Pile-2
Soil Pile-3
Trip Blank

Samples:

S708677-CCV1

SW846 8260C

Samples:

S708677-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

2,2-Dichloropropane (-23.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

trans-1,4-Dichloro-2-butene (-26.2%)

This affected the following samples:

1716747-BLK1
1716747-BS1
1716747-BSD1
Soil Pile-1
Soil Pile-2
Soil Pile-3
Trip Blank

SW846 8270D

Calibration:

1709033

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Benzoic acid
Carbazole

This affected the following samples:

S708282-ICV1

Laboratory Control Samples:

1716787 BS/BSD

Benzidine percent recoveries (22/21) are outside individual acceptance criteria (40-140), but within overall method allowances.
All reported results of the following samples are considered to have a potentially low bias:

Soil Pile-Comp

Samples:

S708746-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

3-Nitroaniline (-23.0%)
4-Chloroaniline (-55.5%)
Aniline (-77.7%)
Benzidine (-24.5%)
Benzo (b) fluoranthene (21.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Carbazole (-20.5%)

SW846 8270D

Samples:

S708746-CCV1

This affected the following samples:

1716787-BLK1
1716787-BS1
1716787-BSD1

S708829-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Aniline (-28.6%)
Benzidine (-78.4%)
Benzo (b) fluoranthene (25.3%)
Benzo (k) fluoranthene (-31.0%)

This affected the following samples:

Soil Pile-Comp

Sample Acceptance Check Form

Client:	Day Environmental, Inc.
Project:	4581 Lower Birch Run Rd - Alleghany, NY / 4884S-13
Work Order:	SC39794
Sample(s) received on:	9/28/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☑	☐	☐
Were custody seals intact?	☑	☐	☐
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: SC39794-04 **Client ID:** Soil Pile-Comp

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Aluminum	3880		5.16	mg/kg	SW846 6010C
Arsenic	5.22		1.55	mg/kg	SW846 6010C
Barium	47.8		1.03	mg/kg	SW846 6010C
Beryllium	0.229	J	0.516	mg/kg	SW846 6010C
Cadmium	0.436	J	0.516	mg/kg	SW846 6010C
Calcium	13100		25.8	mg/kg	SW846 6010C
Chromium	4.29		1.03	mg/kg	SW846 6010C
Cobalt	5.78		1.02	mg/kg	SW846 6010C
Copper	12.7		1.03	mg/kg	SW846 6010C
Iron	10700		4.13	mg/kg	SW846 6010C
Lead	10.4		1.53	mg/kg	SW846 6010C
Magnesium	2790		5.11	mg/kg	SW846 6010C
Manganese	706	D	5.11	mg/kg	SW846 6010C
Nickel	11.5		1.02	mg/kg	SW846 6010C
Potassium	357		51.6	mg/kg	SW846 6010C
Sodium	91.6	J	155	mg/kg	SW846 6010C
Vanadium	5.37		1.55	mg/kg	SW846 6010C
Zinc	30.8		1.03	mg/kg	SW846 6010C

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-1 SC39794-01	4884S-13	Soil	25-Sep-17 12:15	28-Sep-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716706	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 21.86 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.59	U	µg/kg dry	1.59	0.81	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
67-64-1	Acetone	< 15.9	U	µg/kg dry	15.9	6.37	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1.59	U	µg/kg dry	1.59	1.53	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.59	U	µg/kg dry	1.59	0.42	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.59	U	µg/kg dry	1.59	0.43	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.59	U	µg/kg dry	1.59	0.80	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.59	U	µg/kg dry	1.59	1.06	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.59	U	µg/kg dry	1.59	1.52	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 3.19	U	µg/kg dry	3.19	1.44	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.19	U	µg/kg dry	3.19	2.85	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.59	U	µg/kg dry	1.59	0.46	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.59	U	µg/kg dry	1.59	0.29	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.59	U	µg/kg dry	1.59	0.36	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 3.19	U	µg/kg dry	3.19	1.02	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.59	U	µg/kg dry	1.59	1.30	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.59	U	µg/kg dry	1.59	0.50	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.19	U	µg/kg dry	3.19	0.88	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.59	U	µg/kg dry	1.59	0.86	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 3.19	U	µg/kg dry	3.19	0.66	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.59	U	µg/kg dry	1.59	0.40	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.59	U	µg/kg dry	1.59	0.37	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 3.19	U	µg/kg dry	3.19	2.30	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.59	U	µg/kg dry	1.59	1.08	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.59	U	µg/kg dry	1.59	1.07	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.59	U	µg/kg dry	1.59	0.83	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.59	U	µg/kg dry	1.59	0.41	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.59	U	µg/kg dry	1.59	0.35	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.59	U	µg/kg dry	1.59	0.47	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.19	U	µg/kg dry	3.19	0.60	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.59	U	µg/kg dry	1.59	0.42	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.59	U	µg/kg dry	1.59	0.57	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.59	U	µg/kg dry	1.59	0.83	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.59	U	µg/kg dry	1.59	0.59	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.59	U	µg/kg dry	1.59	0.84	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.59	U	µg/kg dry	1.59	0.83	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.59	U	µg/kg dry	1.59	0.83	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.59	U	µg/kg dry	1.59	0.75	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.59	U	µg/kg dry	1.59	0.51	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.59	U	µg/kg dry	1.59	0.96	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.59	U	µg/kg dry	1.59	0.84	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-1	4884S-13	Soil	25-Sep-17 12:15	28-Sep-17
SC39794-01				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 21.86 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 1.59	U	µg/kg dry	1.59	0.23	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
87-68-3	Hexachlorobutadiene	< 1.59	U	µg/kg dry	1.59	0.80	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 3.19	U	µg/kg dry	3.19	1.95	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.59	U	µg/kg dry	1.59	0.31	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.59	U	µg/kg dry	1.59	0.34	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.59	U	µg/kg dry	1.59	0.59	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 3.19	U	µg/kg dry	3.19	0.82	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.19	U	µg/kg dry	3.19	0.63	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.59	U	µg/kg dry	1.59	0.95	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.59	U	µg/kg dry	1.59	0.26	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.59	U	µg/kg dry	1.59	0.32	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.59	U	µg/kg dry	1.59	1.35	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1.59	U	µg/kg dry	1.59	1.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.59	U	µg/kg dry	1.59	0.54	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.59	U	µg/kg dry	1.59	0.52	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.59	U	µg/kg dry	1.59	0.56	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.59	U	µg/kg dry	1.59	1.17	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.59	U	µg/kg dry	1.59	0.50	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.59	U	µg/kg dry	1.59	0.53	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.59	U	µg/kg dry	1.59	1.15	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.59	U	µg/kg dry	1.59	0.43	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.59	U	µg/kg dry	1.59	0.86	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.59	U	µg/kg dry	1.59	1.19	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.59	U	µg/kg dry	1.59	0.39	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.59	U	µg/kg dry	1.59	0.27	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.59	U	µg/kg dry	1.59	0.54	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.19	U	µg/kg dry	3.19	0.29	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.59	U	µg/kg dry	1.59	0.45	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 3.19	U	µg/kg dry	3.19	2.51	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.59	U	µg/kg dry	1.59	1.44	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.59	U	µg/kg dry	1.59	0.53	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.59	U	µg/kg dry	1.59	0.86	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.59	U	µg/kg dry	1.59	0.30	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 15.9	U	µg/kg dry	15.9	10.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 31.9	U	µg/kg dry	31.9	27.7	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 7.96	U	µg/kg dry	7.96	3.63	1	"	"	"	"	"	X
64-17-5	Ethanol	< 319	U	µg/kg dry	319	59.4	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*119*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-1 SC39794-01	4884S-13	Soil	25-Sep-17 12:15	28-Sep-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
General Chemistry Parameters													
	% Solids	**93.2**		%			1	SM2540 G (11) Mod.	02-Oct-17	02-Oct-17	MBR	1716760	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-2 SC39794-02	4884S-13	Soil	25-Sep-17 12:30	28-Sep-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716706	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 18.15 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.84	U	µg/kg dry	1.84	0.93	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
67-64-1	Acetone	< 18.4	U	µg/kg dry	18.4	7.37	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 1.84	U	µg/kg dry	1.84	1.77	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.84	U	µg/kg dry	1.84	0.49	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.84	U	µg/kg dry	1.84	0.49	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.84	U	µg/kg dry	1.84	0.93	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 1.84	U	µg/kg dry	1.84	1.23	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.84	U	µg/kg dry	1.84	1.76	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 3.69	U	µg/kg dry	3.69	1.67	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 3.69	U	µg/kg dry	3.69	3.30	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.84	U	µg/kg dry	1.84	0.53	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.84	U	µg/kg dry	1.84	0.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.84	U	µg/kg dry	1.84	0.41	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 3.69	U	µg/kg dry	3.69	1.18	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.84	U	µg/kg dry	1.84	1.51	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.84	U	µg/kg dry	1.84	0.58	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 3.69	U	µg/kg dry	3.69	1.02	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.84	U	µg/kg dry	1.84	0.99	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 3.69	U	µg/kg dry	3.69	0.76	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.84	U	µg/kg dry	1.84	0.46	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.84	U	µg/kg dry	1.84	0.43	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 3.69	U	µg/kg dry	3.69	2.66	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 1.84	U	µg/kg dry	1.84	1.25	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 1.84	U	µg/kg dry	1.84	1.24	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.84	U	µg/kg dry	1.84	0.96	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.84	U	µg/kg dry	1.84	0.48	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.84	U	µg/kg dry	1.84	0.40	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.84	U	µg/kg dry	1.84	0.55	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 3.69	U	µg/kg dry	3.69	0.70	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.84	U	µg/kg dry	1.84	0.48	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.84	U	µg/kg dry	1.84	0.66	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.84	U	µg/kg dry	1.84	0.96	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.84	U	µg/kg dry	1.84	0.68	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.84	U	µg/kg dry	1.84	0.98	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.84	U	µg/kg dry	1.84	0.97	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.84	U	µg/kg dry	1.84	0.96	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.84	U	µg/kg dry	1.84	0.87	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.84	U	µg/kg dry	1.84	0.59	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 1.84	U	µg/kg dry	1.84	1.11	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 1.84	U	µg/kg dry	1.84	0.97	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-2	4884S-13	Soil	25-Sep-17 12:30	28-Sep-17
SC39794-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
						Initial weight: 18.15 g							
100-41-4	Ethylbenzene	< 1.84	U	µg/kg dry	1.84	0.27	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
87-68-3	Hexachlorobutadiene	< 1.84	U	µg/kg dry	1.84	0.93	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 3.69	U	µg/kg dry	3.69	2.26	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 1.84	U	µg/kg dry	1.84	0.36	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.84	U	µg/kg dry	1.84	0.40	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.84	U	µg/kg dry	1.84	0.68	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 3.69	U	µg/kg dry	3.69	0.95	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 3.69	U	µg/kg dry	3.69	0.73	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.84	U	µg/kg dry	1.84	1.10	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.84	U	µg/kg dry	1.84	0.30	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.84	U	µg/kg dry	1.84	0.37	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.84	U	µg/kg dry	1.84	1.57	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 1.84	U	µg/kg dry	1.84	1.56	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.84	U	µg/kg dry	1.84	0.63	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.84	U	µg/kg dry	1.84	0.60	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.84	U	µg/kg dry	1.84	0.65	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.84	U	µg/kg dry	1.84	1.36	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.84	U	µg/kg dry	1.84	0.58	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.84	U	µg/kg dry	1.84	0.61	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.84	U	µg/kg dry	1.84	1.34	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.84	U	µg/kg dry	1.84	0.50	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.84	U	µg/kg dry	1.84	0.99	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.84	U	µg/kg dry	1.84	1.38	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.84	U	µg/kg dry	1.84	0.45	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.84	U	µg/kg dry	1.84	0.32	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.84	U	µg/kg dry	1.84	0.62	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 3.69	U	µg/kg dry	3.69	0.33	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.84	U	µg/kg dry	1.84	0.52	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 3.69	U	µg/kg dry	3.69	2.91	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.84	U	µg/kg dry	1.84	1.67	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.84	U	µg/kg dry	1.84	0.62	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.84	U	µg/kg dry	1.84	0.99	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.84	U	µg/kg dry	1.84	0.34	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 18.4	U	µg/kg dry	18.4	12.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 36.9	U	µg/kg dry	36.9	32.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 9.22	U	µg/kg dry	9.22	4.21	1	"	"	"	"	"	X
64-17-5	Ethanol	< 369	U	µg/kg dry	369	68.8	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*117*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-2 SC39794-02	4884S-13	Soil	25-Sep-17 12:30	28-Sep-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
General Chemistry Parameters													
	% Solids	**93.2**		%			1	SM2540 G (11) Mod.	02-Oct-17	02-Oct-17	MBR	1716760	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-3	4884S-13	Soil	25-Sep-17 12:45	28-Sep-17
SC39794-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	**Field extracted**		N/A			1	VOC Soil Extraction			BD	1716706	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)							Initial weight: 17.66 g						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 2.23	U	µg/kg dry	2.23	1.13	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
67-64-1	Acetone	< 22.3	U	µg/kg dry	22.3	8.93	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.23	U	µg/kg dry	2.23	2.15	1	"	"	"	"	"	X
71-43-2	Benzene	< 2.23	U	µg/kg dry	2.23	0.59	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 2.23	U	µg/kg dry	2.23	0.60	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 2.23	U	µg/kg dry	2.23	1.13	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.23	U	µg/kg dry	2.23	1.49	1	"	"	"	"	"	X
75-25-2	Bromoform	< 2.23	U	µg/kg dry	2.23	2.13	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 4.47	U	µg/kg dry	4.47	2.02	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 4.47	U	µg/kg dry	4.47	3.99	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 2.23	U	µg/kg dry	2.23	0.64	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 2.23	U	µg/kg dry	2.23	0.41	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 2.23	U	µg/kg dry	2.23	0.50	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 4.47	U	µg/kg dry	4.47	1.43	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 2.23	U	µg/kg dry	2.23	1.83	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 2.23	U	µg/kg dry	2.23	0.70	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 4.47	U	µg/kg dry	4.47	1.24	1	"	"	"	"	"	X
67-66-3	Chloroform	< 2.23	U	µg/kg dry	2.23	1.20	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 4.47	U	µg/kg dry	4.47	0.92	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 2.23	U	µg/kg dry	2.23	0.56	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 2.23	U	µg/kg dry	2.23	0.52	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 4.47	U	µg/kg dry	4.47	3.23	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.23	U	µg/kg dry	2.23	1.51	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.23	U	µg/kg dry	2.23	1.50	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 2.23	U	µg/kg dry	2.23	1.16	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2.23	U	µg/kg dry	2.23	0.58	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2.23	U	µg/kg dry	2.23	0.48	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2.23	U	µg/kg dry	2.23	0.66	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 4.47	U	µg/kg dry	4.47	0.85	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 2.23	U	µg/kg dry	2.23	0.59	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 2.23	U	µg/kg dry	2.23	0.80	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 2.23	U	µg/kg dry	2.23	1.17	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 2.23	U	µg/kg dry	2.23	0.83	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 2.23	U	µg/kg dry	2.23	1.18	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 2.23	U	µg/kg dry	2.23	1.17	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 2.23	U	µg/kg dry	2.23	1.16	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 2.23	U	µg/kg dry	2.23	1.05	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 2.23	U	µg/kg dry	2.23	0.72	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.23	U	µg/kg dry	2.23	1.35	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.23	U	µg/kg dry	2.23	1.17	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-3	4884S-13	Soil	25-Sep-17 12:45	28-Sep-17
SC39794-03				

Volatile Organic Compounds

Volatile Organic Compounds by SW846 8260

Initial weight: 17.66 g

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
100-41-4	Ethylbenzene	< 2.23	U	µg/kg dry	2.23	0.32	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
87-68-3	Hexachlorobutadiene	< 2.23	U	µg/kg dry	2.23	1.12	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 4.47	U	µg/kg dry	4.47	2.74	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 2.23	U	µg/kg dry	2.23	0.44	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 2.23	U	µg/kg dry	2.23	0.48	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 2.23	U	µg/kg dry	2.23	0.82	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 4.47	U	µg/kg dry	4.47	1.15	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 4.47	U	µg/kg dry	4.47	0.89	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 2.23	U	µg/kg dry	2.23	1.33	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 2.23	U	µg/kg dry	2.23	0.36	1	"	"	"	"	"	X
100-42-5	Styrene	< 2.23	U	µg/kg dry	2.23	0.45	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 2.23	U	µg/kg dry	2.23	1.90	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.23	U	µg/kg dry	2.23	1.89	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 2.23	U	µg/kg dry	2.23	0.76	1	"	"	"	"	"	X
108-88-3	Toluene	< 2.23	U	µg/kg dry	2.23	0.72	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 2.23	U	µg/kg dry	2.23	0.78	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2.23	U	µg/kg dry	2.23	1.65	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 2.23	U	µg/kg dry	2.23	0.70	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 2.23	U	µg/kg dry	2.23	0.74	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 2.23	U	µg/kg dry	2.23	1.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 2.23	U	µg/kg dry	2.23	0.61	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 2.23	U	µg/kg dry	2.23	1.20	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 2.23	U	µg/kg dry	2.23	1.67	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 2.23	U	µg/kg dry	2.23	0.54	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 2.23	U	µg/kg dry	2.23	0.38	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 2.23	U	µg/kg dry	2.23	0.75	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 4.47	U	µg/kg dry	4.47	0.40	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 2.23	U	µg/kg dry	2.23	0.63	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 4.47	U	µg/kg dry	4.47	3.52	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 2.23	U	µg/kg dry	2.23	2.02	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 2.23	U	µg/kg dry	2.23	0.75	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 2.23	U	µg/kg dry	2.23	1.20	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 2.23	U	µg/kg dry	2.23	0.42	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 22.3	U	µg/kg dry	22.3	14.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 44.7	U	µg/kg dry	44.7	38.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 11.2	U	µg/kg dry	11.2	5.10	1	"	"	"	"	"	X
64-17-5	Ethanol	< 447	U	µg/kg dry	447	83.3	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*120*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-3 SC39794-03	4884S-13	Soil	25-Sep-17 12:45	28-Sep-17

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
General Chemistry Parameters													
	% Solids	**88.7**		%			1	SM2540 G (11) Mod.	02-Oct-17	02-Oct-17	MBR	1716760	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-Comp	4884S-13	Soil	25-Sep-17 00:00	28-Sep-17
SC39794-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds Prepared by method SW846 3546													
83-32-9	Acenaphthene	< 74.1	U	µg/kg dry	74.1	36.9	1	SW846 8270D	02-Oct-17	05-Oct-17	MSL	1716787	X
208-96-8	Acenaphthylene	< 74.1	U	µg/kg dry	74.1	36.5	1	"	"	"	"	"	X
62-53-3	Aniline	< 366	U	µg/kg dry	366	26.3	1	"	"	"	"	"	X
120-12-7	Anthracene	< 74.1	U	µg/kg dry	74.1	35.4	1	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 366	U	µg/kg dry	366	36.0	1	"	"	"	"	"	
92-87-5	Benzidine	< 366	U	µg/kg dry	366	73.7	1	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 74.1	U	µg/kg dry	74.1	39.1	1	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 74.1	U	µg/kg dry	74.1	27.6	1	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 74.1	U	µg/kg dry	74.1	35.9	1	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 74.1	U	µg/kg dry	74.1	29.8	1	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 74.1	U	µg/kg dry	74.1	29.0	1	"	"	"	"	"	X
65-85-0	Benzoic acid	< 366	U	µg/kg dry	366	76.9	1	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 366	U	µg/kg dry	366	30.0	1	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 366	U	µg/kg dry	366	32.5	1	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 185	U	µg/kg dry	185	26.6	1	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 185	U	µg/kg dry	185	28.5	1	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 185	U	µg/kg dry	185	45.7	1	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 366	U	µg/kg dry	366	34.3	1	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 366	U	µg/kg dry	366	42.7	1	"	"	"	"	"	X
86-74-8	Carbazole	< 185	U	µg/kg dry	185	103	1	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 366	U	µg/kg dry	366	35.0	1	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 185	U	µg/kg dry	185	40.1	1	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 366	U	µg/kg dry	366	33.9	1	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 185	U	µg/kg dry	185	33.0	1	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 366	U	µg/kg dry	366	43.5	1	"	"	"	"	"	X
218-01-9	Chrysene	< 74.1	U	µg/kg dry	74.1	37.0	1	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 74.1	U	µg/kg dry	74.1	28.4	1	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 185	U	µg/kg dry	185	28.2	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 366	U	µg/kg dry	366	32.0	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 366	U	µg/kg dry	366	32.0	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 366	U	µg/kg dry	366	34.0	1	"	"	"	"	"	X
91-94-1	3,3´-Dichlorobenzidine	< 366	U	µg/kg dry	366	55.7	1	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 185	U	µg/kg dry	185	34.7	1	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 366	U	µg/kg dry	366	45.3	1	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 366	U	µg/kg dry	366	40.1	1	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 366	U	µg/kg dry	366	26.2	1	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 366	U	µg/kg dry	366	38.9	1	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 366	U	µg/kg dry	366	47.0	1	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 366	U	µg/kg dry	366	37.3	1	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 185	U	µg/kg dry	185	71.7	1	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 185	U	µg/kg dry	185	41.8	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-Comp	4884S-13	Soil	25-Sep-17 00:00	28-Sep-17
SC39794-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
117-84-0	Di-n-octyl phthalate	< 366	U	µg/kg dry	366	41.4	1	SW846 8270D	02-Oct-17	05-Oct-17	MSL	1716787	X
206-44-0	Fluoranthene	< 74.1	U	µg/kg dry	74.1	39.1	1	"	"	"	"	"	X
86-73-7	Fluorene	< 74.1	U	µg/kg dry	74.1	37.6	1	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 185	U	µg/kg dry	185	36.5	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 185	U	µg/kg dry	185	44.3	1	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 185	U	µg/kg dry	185	25.2	1	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 185	U	µg/kg dry	185	40.0	1	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 74.1	U	µg/kg dry	74.1	26.6	1	"	"	"	"	"	X
78-59-1	Isophorone	< 185	U	µg/kg dry	185	34.8	1	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 74.1	U	µg/kg dry	74.1	44.7	1	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 366	U	µg/kg dry	366	31.1	1	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 366	U	µg/kg dry	366	35.4	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 74.1	U	µg/kg dry	74.1	34.5	1	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 366	U	µg/kg dry	366	31.1	1	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 366	U	µg/kg dry	366	50.1	1	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 185	U	µg/kg dry	185	57.1	1	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 185	U	µg/kg dry	185	33.8	1	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 185	U	µg/kg dry	185	30.8	1	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 1470	U	µg/kg dry	1470	59.2	1	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 185	U	µg/kg dry	185	34.4	1	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 185	U	µg/kg dry	185	36.1	1	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 366	U	µg/kg dry	366	39.7	1	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 366	U	µg/kg dry	366	39.2	1	"	"	"	"	"	X
85-01-8	Phenanthrene	< 74.1	U	µg/kg dry	74.1	34.5	1	"	"	"	"	"	X
108-95-2	Phenol	< 366	U	µg/kg dry	366	24.1	1	"	"	"	"	"	X
129-00-0	Pyrene	< 74.1	U	µg/kg dry	74.1	41.3	1	"	"	"	"	"	X
110-86-1	Pyridine	< 366	U	µg/kg dry	366	54.6	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 366	U	µg/kg dry	366	36.3	1	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 74.1	U	µg/kg dry	74.1	36.4	1	"	"	"	"	"	
95-95-4	2,4,5-Trichlorophenol	< 366	U	µg/kg dry	366	33.0	1	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 185	U	µg/kg dry	185	33.1	1	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 366	U	µg/kg dry	366	57.9	1	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 366	U	µg/kg dry	366	35.5	1	"	"	"	"	"	X
Surrogate recoveries:													
321-60-8	*2-Fluorobiphenyl*	*74*			*30-130 %*			"	"	"	"	"	
367-12-4	*2-Fluorophenol*	*71*			*30-130 %*			"	"	"	"	"	
4165-60-0	*Nitrobenzene-d5*	*71*			*30-130 %*			"	"	"	"	"	
4165-62-2	*Phenol-d5*	*77*			*30-130 %*			"	"	"	"	"	
1718-51-0	*Terphenyl-dl4*	*82*			*30-130 %*			"	"	"	"	"	
118-79-6	*2,4,6-Tribromophenol*	*73*			*30-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls Prepared by method SW846 3546													
12674-11-2	Aroclor-1016	< 21.7	U	µg/kg dry	21.7	9.71	1	SW846 8082A	02-Oct-17	04-Oct-17	IMR	1716732	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-Comp SC39794-04	4884S-13	Soil	25-Sep-17 00:00	28-Sep-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
11104-28-2	Aroclor-1221	< 21.7	U	µg/kg dry	21.7	11.5	1	SW846 8082A	02-Oct-17	04-Oct-17	IMR	1716732	X
11141-16-5	Aroclor-1232	< 21.7	U	µg/kg dry	21.7	10.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 21.7	U	µg/kg dry	21.7	21.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 21.7	U	µg/kg dry	21.7	19.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 21.7	U	µg/kg dry	21.7	14.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 21.7	U	µg/kg dry	21.7	11.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 21.7	U	µg/kg dry	21.7	18.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 21.7	U	µg/kg dry	21.7	9.77	1	"	"	"	"	"	X
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*50*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*50*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*70*			*30-150 %*			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3051A													
7440-22-4	Silver	< 1.55	U	mg/kg dry	1.55	0.167	1	SW846 6010C	06-Oct-17	09-Oct-17	CAW	1717061	X
7429-90-5	Aluminum	**3,880**		mg/kg dry	5.16	1.17	1	"	"	"	"	"	X
7440-38-2	Arsenic	**5.22**		mg/kg dry	1.55	0.196	1	"	"	10-Oct-17	"	1717245	X
7440-39-3	Barium	**47.8**		mg/kg dry	1.03	0.122	1	"	"	09-Oct-17	"	1717061	X
7440-41-7	Beryllium	**0.229**	J	mg/kg dry	0.516	0.0259	1	"	"	"	"	"	X
7440-70-2	Calcium	**13,100**		mg/kg dry	25.8	5.29	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.436**	J	mg/kg dry	0.516	0.0267	1	"	"	"	"	"	X
7440-48-4	Cobalt	**5.78**		mg/kg dry	1.02	0.0592	1	"	11-Oct-17	11-Oct-17	"	1717246	X
7440-47-3	Chromium	**4.29**		mg/kg dry	1.03	0.137	1	"	06-Oct-17	09-Oct-17	"	1717061	X
7440-50-8	Copper	**12.7**		mg/kg dry	1.03	0.248	1	"	"	10-Oct-17	"	1717245	X
7439-89-6	Iron	**10,700**		mg/kg dry	4.13	2.13	1	"	"	09-Oct-17	"	1717061	X
7439-97-6	Mercury	< 0.0321	U	mg/kg dry	0.0321	0.0089	1	SW846 7471B	"	10-Oct-17	LNB	1717062	X
Prepared by method SW846 3051A													
7440-09-7	Potassium	**357**		mg/kg dry	51.6	3.60	1	SW846 6010C	"	10-Oct-17	CAW	1717245	X
7439-95-4	Magnesium	**2,790**		mg/kg dry	5.11	1.47	1	"	11-Oct-17	11-Oct-17	"	1717246	X
7439-96-5	Manganese	**706**	D	mg/kg dry	5.11	1.30	5	"	"	12-Oct-17	"	1717358	X
7440-23-5	Sodium	**91.6**	J	mg/kg dry	155	11.1	1	"	06-Oct-17	10-Oct-17	"	1717245	X
7440-02-0	Nickel	**11.5**		mg/kg dry	1.02	0.118	1	"	11-Oct-17	11-Oct-17	"	1717246	X
7439-92-1	Lead	**10.4**		mg/kg dry	1.53	0.217	1	"	"	"	"	"	X
7440-36-0	Antimony	< 5.16	U	mg/kg dry	5.16	0.388	1	"	06-Oct-17	10-Oct-17	"	1717245	X
7782-49-2	Selenium	< 1.55	U	mg/kg dry	1.55	0.295	1	"	"	"	"	"	X
7440-28-0	Thallium	< 3.10	U	mg/kg dry	3.10	1.14	1	"	"	09-Oct-17	"	1717061	X
7440-62-2	Vanadium	**5.37**		mg/kg dry	1.55	0.275	1	"	"	"	"	"	X
7440-66-6	Zinc	**30.8**		mg/kg dry	1.03	0.799	1	"	"	"	"	"	X
General Chemistry Parameters													
	Sample Prep	**Completed**		N/A			1	SAI SOP	02-Oct-17		BD	1716799	
	% Solids	**89.8**		%			1	SM2540 G (11) Mod.	02-Oct-17	02-Oct-17	MBR	1716760	
Subcontracted Analyses													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Soil Pile-Comp	4884S-13	Soil	25-Sep-17 00:00	28-Sep-17
SC39794-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 404154-													
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
72-54-8	4,4' -DDD	< 2.1		ug/Kg	2.1	2.1	2	SW8081B	04-Oct-17	05-Oct-17 11:26	11301	404154A	
72-55-9	4,4' -DDE	< 2.1		ug/Kg	2.1	2.1	2	"	"	"	"	"	
50-29-3	4,4' -DDT	< 2.1		ug/Kg	2.1	2.1	2	"	"	"	"	"	
319-84-6	a-BHC	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
5103-71-9	a-Chlordane	< 3.5		ug/Kg	3.5	3.5	2	"	"	"	"	"	
309-00-2	Aldrin	< 3.5		ug/Kg	3.5	3.5	2	"	"	"	"	"	
319-85-7	b-BHC	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
57-74-9	Chlordane	< 35		ug/Kg	35	35	2	"	"	"	"	"	
319-86-8	d-BHC	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
60-57-1	Dieldrin	< 3.5		ug/Kg	3.5	3.5	2	"	"	"	"	"	
959-98-8	Endosulfan I	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
33213-65-9	Endosulfan II	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
1031-07-8	Endosulfan sulfate	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
72-20-8	Endrin	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
7421-93-4	Endrin aldehyde	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
53494-70-5	Endrin ketone	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
58-89-9	g-BHC	< 1.4		ug/Kg	1.4	1.4	2	"	"	"	"	"	
5103-74-2	g-Chlordane	< 3.5		ug/Kg	3.5	3.5	2	"	"	"	"	"	
76-44-8	Heptachlor	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
1024-57-3	Heptachlor epoxide	< 7.1		ug/Kg	7.1	7.1	2	"	"	"	"	"	
72-43-5	Methoxychlor	< 35		ug/Kg	35	35	2	"	"	"	"	"	
8001-35-2	Toxaphene	< 140		ug/Kg	140	140	2	"	"	"	"	"	
Surrogate recoveries:													
2051-24-3	*% DCBP*	*88*			*40-140 %*			"	"	"	"	"	
877-09-8	*% TCMX*	*69*			*40-140 %*			"	"	"	"	"	
Subcontracted Analyses Prepared by method 403997-										Methylation date: 03-Oct-17			
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
93-76-5	2,4,5-T	< 89		ug/Kg	89	89	10	SW8151A	03-Oct-17	04-Oct-17 20:05	11301	403997A	
93-72-1	2,4,5-TP (Silvex)	< 89		ug/Kg	89	89	10	"	"	"	"	"	
94-75-7	2,4-D	< 180		ug/Kg	180	180	10	"	"	"	"	"	
94-82-6	2,4-DB	< 1800		ug/Kg	1800	1800	10	"	"	"	"	"	
75-99-0	Dalapon	< 89		ug/Kg	89	89	10	"	"	"	"	"	
1918-00-9	Dicamba	< 89		ug/Kg	89	89	10	"	"	"	"	"	
120-36-5	Dichloroprop	< 180		ug/Kg	180	180	10	"	"	"	"	"	
88-85-7	Dinoseb	< 180		ug/Kg	180	180	10	"	"	"	"	"	
Surrogate recoveries:													
19719-28-9	*% DCAA*	*59*			*30-150 %*			"	"	"	"	"	
*Analysis performed by Phoenix Environmental Labs, Inc. * - CT007*													
	Percent Solid	**92**		%			1	SW846-%Solid	25-Sep-17	03-Oct-17 21:40	11301	'[none]'	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	4884S-13	Deionized Water	25-Sep-17 00:00	28-Sep-17
SC39794-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5035A Soil (low level)													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00	2.54	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
67-64-1	Acetone	< 50.0	U	µg/kg wet	50.0	20.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.00	U	µg/kg wet	5.00	4.80	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.00	U	µg/kg wet	5.00	1.32	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.00	U	µg/kg wet	5.00	1.34	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.00	U	µg/kg wet	5.00	2.52	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.00	U	µg/kg wet	5.00	3.34	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.00	U	µg/kg wet	5.00	4.77	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	U	µg/kg wet	10.0	4.52	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0	8.94	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.43	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00	0.91	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00	1.12	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	U	µg/kg wet	10.0	3.20	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00	4.09	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.00	U	µg/kg wet	5.00	1.56	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	U	µg/kg wet	10.0	2.78	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.00	U	µg/kg wet	5.00	2.68	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	U	µg/kg wet	10.0	2.06	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.24	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00	1.18	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0	7.22	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.00	U	µg/kg wet	5.00	3.39	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00	3.36	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.00	U	µg/kg wet	5.00	2.60	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.30	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.48	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0	1.90	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00	1.79	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	1.86	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00	2.65	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.59	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00	2.36	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00	1.61	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	3.02	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00	2.62	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.00	U	µg/kg wet	5.00	0.72	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00	2.51	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0	6.14	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
Trip Blank	4884S-13	Deionized Water	25-Sep-17 00:00	28-Sep-17
SC39794-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
98-82-8	Isopropylbenzene	< 5.00	U	µg/kg wet	5.00	0.98	1	SW846 8260C	02-Oct-17	03-Oct-17	MP	1716747	X
99-87-6	4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00	1.08	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	1.84	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0	2.57	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	U	µg/kg wet	10.0	1.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.00	U	µg/kg wet	5.00	2.98	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.00	U	µg/kg wet	5.00	0.81	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.00	U	µg/kg wet	5.00	1.00	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00	4.23	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.00	U	µg/kg wet	5.00	1.71	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.00	U	µg/kg wet	5.00	1.62	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.76	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	3.68	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00	1.57	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00	1.66	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00	3.62	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.00	U	µg/kg wet	5.00	1.36	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00	3.75	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	1.22	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00	0.86	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.00	U	µg/kg wet	5.00	1.69	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	U	µg/kg wet	10.0	0.90	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.00	U	µg/kg wet	5.00	1.40	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0	7.88	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.00	U	µg/kg wet	5.00	4.53	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00	1.67	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00	2.70	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00	0.93	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0	32.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	U	µg/kg wet	100	86.8	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0	11.4	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1000	U	µg/kg wet	1000	186	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*116*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*99*			*70-130 %*			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1716747 - SW846 5035A Soil (low level)										
Blank (1716747-BLK1)						Prepared & Analyzed: 02-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1716747 - SW846 5035A Soil (low level)										
Blank (1716747-BLK1)					Prepared & Analyzed: 02-Oct-17					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	*49.2*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*57.3*		µg/kg		*50.0*		*115*	*70-130*		
Surrogate: Dibromofluoromethane	*49.3*		µg/kg		*50.0*		*99*	*70-130*		
LCS (1716747-BS1)					Prepared & Analyzed: 02-Oct-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.5**		µg/kg		20.0		93	70-130		
Acetone	**18.9**		µg/kg		20.0		95	70-130		
Acrylonitrile	**18.5**		µg/kg		20.0		92	70-130		
Benzene	**19.0**		µg/kg		20.0		95	70-130		
Bromobenzene	**19.6**		µg/kg		20.0		98	70-130		
Bromochloromethane	**19.5**		µg/kg		20.0		97	70-130		
Bromodichloromethane	**18.1**		µg/kg		20.0		91	70-130		
Bromoform	**14.4**		µg/kg		20.0		72	70-130		
Bromomethane	**21.5**		µg/kg		20.0		108	70-130		
2-Butanone (MEK)	**21.2**		µg/kg		20.0		106	70-130		
n-Butylbenzene	**19.7**		µg/kg		20.0		98	70-130		
sec-Butylbenzene	**19.3**		µg/kg		20.0		97	70-130		
tert-Butylbenzene	**19.0**		µg/kg		20.0		95	70-130		
Carbon disulfide	**17.2**		µg/kg		20.0		86	70-130		
Carbon tetrachloride	**17.9**		µg/kg		20.0		89	70-130		
Chlorobenzene	**19.0**		µg/kg		20.0		95	70-130		
Chloroethane	**21.7**		µg/kg		20.0		109	70-130		
Chloroform	**18.9**		µg/kg		20.0		95	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1716747 - SW846 5035A Soil (low level)										
LCS (1716747-BS1)						Prepared & Analyzed: 02-Oct-17				
Chloromethane	**20.5**		µg/kg		20.0		102	70-130		
2-Chlorotoluene	**18.7**		µg/kg		20.0		93	70-130		
4-Chlorotoluene	**19.8**		µg/kg		20.0		99	70-130		
1,2-Dibromo-3-chloropropane	**13.7**	QM9	µg/kg		20.0		68	70-130		
Dibromochloromethane	**17.3**		µg/kg		20.0		86	70-130		
1,2-Dibromoethane (EDB)	**19.0**		µg/kg		20.0		95	70-130		
Dibromomethane	**19.6**		µg/kg		20.0		98	70-130		
1,2-Dichlorobenzene	**19.6**		µg/kg		20.0		98	70-130		
1,3-Dichlorobenzene	**19.2**		µg/kg		20.0		96	70-130		
1,4-Dichlorobenzene	**19.0**		µg/kg		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	**18.7**		µg/kg		20.0		93	70-130		
1,1-Dichloroethane	**18.7**		µg/kg		20.0		94	70-130		
1,2-Dichloroethane	**19.4**		µg/kg		20.0		97	70-130		
1,1-Dichloroethene	**20.5**		µg/kg		20.0		102	70-130		
cis-1,2-Dichloroethene	**19.0**		µg/kg		20.0		95	70-130		
trans-1,2-Dichloroethene	**18.5**		µg/kg		20.0		92	70-130		
1,2-Dichloropropane	**18.6**		µg/kg		20.0		93	70-130		
1,3-Dichloropropane	**19.1**		µg/kg		20.0		96	70-130		
2,2-Dichloropropane	**15.1**		µg/kg		20.0		75	70-130		
1,1-Dichloropropene	**19.1**		µg/kg		20.0		95	70-130		
cis-1,3-Dichloropropene	**17.2**		µg/kg		20.0		86	70-130		
trans-1,3-Dichloropropene	**16.4**		µg/kg		20.0		82	70-130		
Ethylbenzene	**19.3**		µg/kg		20.0		97	70-130		
Hexachlorobutadiene	**19.6**		µg/kg		20.0		98	70-130		
2-Hexanone (MBK)	**15.2**		µg/kg		20.0		76	70-130		
Isopropylbenzene	**19.3**		µg/kg		20.0		96	70-130		
4-Isopropyltoluene	**19.9**		µg/kg		20.0		99	70-130		
Methyl tert-butyl ether	**16.4**		µg/kg		20.0		82	70-130		
4-Methyl-2-pentanone (MIBK)	**15.2**		µg/kg		20.0		76	70-130		
Methylene chloride	**18.0**		µg/kg		20.0		90	70-130		
Naphthalene	**16.4**		µg/kg		20.0		82	70-130		
n-Propylbenzene	**19.5**		µg/kg		20.0		98	70-130		
Styrene	**19.3**		µg/kg		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	**18.3**		µg/kg		20.0		92	70-130		
1,1,2,2-Tetrachloroethane	**18.2**		µg/kg		20.0		91	70-130		
Tetrachloroethene	**19.0**		µg/kg		20.0		95	70-130		
Toluene	**19.1**		µg/kg		20.0		96	70-130		
1,2,3-Trichlorobenzene	**19.6**		µg/kg		20.0		98	70-130		
1,2,4-Trichlorobenzene	**19.4**		µg/kg		20.0		97	70-130		
1,3,5-Trichlorobenzene	**20.6**		µg/kg		20.0		103	70-130		
1,1,1-Trichloroethane	**18.3**		µg/kg		20.0		91	70-130		
1,1,2-Trichloroethane	**19.0**		µg/kg		20.0		95	70-130		
Trichloroethene	**19.2**		µg/kg		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**19.9**		µg/kg		20.0		100	70-130		
1,2,3-Trichloropropane	**18.4**		µg/kg		20.0		92	70-130		
1,2,4-Trimethylbenzene	**19.7**		µg/kg		20.0		98	70-130		
1,3,5-Trimethylbenzene	**19.5**		µg/kg		20.0		97	70-130		
Vinyl chloride	**23.1**		µg/kg		20.0		115	70-130		
m,p-Xylene	**18.9**		µg/kg		20.0		95	70-130		
o-Xylene	**19.3**		µg/kg		20.0		96	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1716747 - SW846 5035A Soil (low level)										
LCS (1716747-BS1)						Prepared & Analyzed: 02-Oct-17				
Tetrahydrofuran	**16.5**		µg/kg		20.0		82	70-130		
Ethyl ether	**21.7**		µg/kg		20.0		108	70-130		
Tert-amyl methyl ether	**21.9**		µg/kg		20.0		109	70-130		
Ethyl tert-butyl ether	**17.2**		µg/kg		20.0		86	70-130		
Di-isopropyl ether	**19.2**		µg/kg		20.0		96	70-130		
Tert-Butanol / butyl alcohol	**161**		µg/kg		200		80	70-130		
1,4-Dioxane	**158**		µg/kg		200		79	70-130		
trans-1,4-Dichloro-2-butene	**13.7**	QC2	µg/kg		20.0		69	70-130		
Ethanol	**375**		µg/kg		400		94	70-130		
Surrogate: 4-Bromofluorobenzene	*50.5*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.7*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.1*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.1*		µg/kg		*50.0*		*100*	*70-130*		
LCS Dup (1716747-BSD1)						Prepared & Analyzed: 02-Oct-17				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.5**		µg/kg		20.0		92	70-130	0.2	30
Acetone	**17.6**		µg/kg		20.0		88	70-130	7	30
Acrylonitrile	**17.7**		µg/kg		20.0		88	70-130	4	30
Benzene	**18.8**		µg/kg		20.0		94	70-130	1	30
Bromobenzene	**19.2**		µg/kg		20.0		96	70-130	2	30
Bromochloromethane	**19.2**		µg/kg		20.0		96	70-130	2	30
Bromodichloromethane	**18.4**		µg/kg		20.0		92	70-130	1	30
Bromoform	**14.6**		µg/kg		20.0		73	70-130	1	30
Bromomethane	**19.3**		µg/kg		20.0		97	70-130	11	30
2-Butanone (MEK)	**16.4**		µg/kg		20.0		82	70-130	26	30
n-Butylbenzene	**18.9**		µg/kg		20.0		94	70-130	4	30
sec-Butylbenzene	**19.0**		µg/kg		20.0		95	70-130	2	30
tert-Butylbenzene	**18.9**		µg/kg		20.0		94	70-130	0.6	30
Carbon disulfide	**17.0**		µg/kg		20.0		85	70-130	1	30
Carbon tetrachloride	**17.5**		µg/kg		20.0		88	70-130	2	30
Chlorobenzene	**18.8**		µg/kg		20.0		94	70-130	1	30
Chloroethane	**22.1**		µg/kg		20.0		111	70-130	2	30
Chloroform	**18.7**		µg/kg		20.0		93	70-130	1	30
Chloromethane	**16.2**		µg/kg		20.0		81	70-130	23	30
2-Chlorotoluene	**18.6**		µg/kg		20.0		93	70-130	0.4	30
4-Chlorotoluene	**19.6**		µg/kg		20.0		98	70-130	0.7	30
1,2-Dibromo-3-chloropropane	**14.1**		µg/kg		20.0		70	70-130	3	30
Dibromochloromethane	**16.8**		µg/kg		20.0		84	70-130	3	30
1,2-Dibromoethane (EDB)	**18.7**		µg/kg		20.0		93	70-130	2	30
Dibromomethane	**19.4**		µg/kg		20.0		97	70-130	2	30
1,2-Dichlorobenzene	**19.3**		µg/kg		20.0		96	70-130	2	30
1,3-Dichlorobenzene	**18.9**		µg/kg		20.0		95	70-130	2	30
1,4-Dichlorobenzene	**18.6**		µg/kg		20.0		93	70-130	2	30
Dichlorodifluoromethane (Freon12)	**15.7**		µg/kg		20.0		78	70-130	17	30
1,1-Dichloroethane	**18.6**		µg/kg		20.0		93	70-130	0.5	30
1,2-Dichloroethane	**19.2**		µg/kg		20.0		96	70-130	0.8	30
1,1-Dichloroethene	**19.2**		µg/kg		20.0		96	70-130	7	30
cis-1,2-Dichloroethene	**18.7**		µg/kg		20.0		94	70-130	1	30
trans-1,2-Dichloroethene	**18.4**		µg/kg		20.0		92	70-130	0.7	30
1,2-Dichloropropane	**18.5**		µg/kg		20.0		93	70-130	0.2	30
1,3-Dichloropropane	**19.0**		µg/kg		20.0		95	70-130	0.5	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1716747 - SW846 5035A Soil (low level)										
LCS Dup (1716747-BSD1)					Prepared & Analyzed: 02-Oct-17					
2,2-Dichloropropane	**14.8**		µg/kg		20.0		74	70-130	2	30
1,1-Dichloropropene	**18.8**		µg/kg		20.0		94	70-130	2	30
cis-1,3-Dichloropropene	**17.0**		µg/kg		20.0		85	70-130	0.9	30
trans-1,3-Dichloropropene	**16.1**		µg/kg		20.0		81	70-130	1	30
Ethylbenzene	**19.0**		µg/kg		20.0		95	70-130	2	30
Hexachlorobutadiene	**18.8**		µg/kg		20.0		94	70-130	4	30
2-Hexanone (MBK)	**15.3**		µg/kg		20.0		77	70-130	1	30
Isopropylbenzene	**19.0**		µg/kg		20.0		95	70-130	1	30
4-Isopropyltoluene	**19.4**		µg/kg		20.0		97	70-130	3	30
Methyl tert-butyl ether	**16.3**		µg/kg		20.0		81	70-130	0.7	30
4-Methyl-2-pentanone (MIBK)	**14.4**		µg/kg		20.0		72	70-130	6	30
Methylene chloride	**18.7**		µg/kg		20.0		93	70-130	4	30
Naphthalene	**16.1**		µg/kg		20.0		80	70-130	2	30
n-Propylbenzene	**19.3**		µg/kg		20.0		97	70-130	1	30
Styrene	**19.3**		µg/kg		20.0		97	70-130	0.4	30
1,1,1,2-Tetrachloroethane	**18.2**		µg/kg		20.0		91	70-130	0.5	30
1,1,2,2-Tetrachloroethane	**17.9**		µg/kg		20.0		90	70-130	1	30
Tetrachloroethene	**18.9**		µg/kg		20.0		94	70-130	0.8	30
Toluene	**18.7**		µg/kg		20.0		94	70-130	2	30
1,2,3-Trichlorobenzene	**18.8**		µg/kg		20.0		94	70-130	4	30
1,2,4-Trichlorobenzene	**18.5**		µg/kg		20.0		92	70-130	5	30
1,3,5-Trichlorobenzene	**19.6**		µg/kg		20.0		98	70-130	5	30
1,1,1-Trichloroethane	**17.9**		µg/kg		20.0		89	70-130	2	30
1,1,2-Trichloroethane	**18.7**		µg/kg		20.0		94	70-130	1	30
Trichloroethene	**18.4**		µg/kg		20.0		92	70-130	4	30
Trichlorofluoromethane (Freon 11)	**20.0**		µg/kg		20.0		100	70-130	0.2	30
1,2,3-Trichloropropane	**18.1**		µg/kg		20.0		91	70-130	1	30
1,2,4-Trimethylbenzene	**19.6**		µg/kg		20.0		98	70-130	0.6	30
1,3,5-Trimethylbenzene	**19.4**		µg/kg		20.0		97	70-130	0.6	30
Vinyl chloride	**22.8**		µg/kg		20.0		114	70-130	1	30
m,p-Xylene	**18.4**		µg/kg		20.0		92	70-130	3	30
o-Xylene	**19.0**		µg/kg		20.0		95	70-130	2	30
Tetrahydrofuran	**15.7**		µg/kg		20.0		79	70-130	5	30
Ethyl ether	**20.8**		µg/kg		20.0		104	70-130	4	30
Tert-amyl methyl ether	**21.6**		µg/kg		20.0		108	70-130	2	30
Ethyl tert-butyl ether	**17.1**		µg/kg		20.0		85	70-130	0.8	30
Di-isopropyl ether	**18.9**		µg/kg		20.0		94	70-130	1	30
Tert-Butanol / butyl alcohol	**128**	QM9	µg/kg		200		64	70-130	23	30
1,4-Dioxane	**151**		µg/kg		200		75	70-130	4	30
trans-1,4-Dichloro-2-butene	**12.3**	QC2	µg/kg		20.0		62	70-130	11	30
Ethanol	**374**		µg/kg		400		93	70-130	0.4	30
Surrogate: 4-Bromofluorobenzene	*50.7*		µg/kg		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.5*		µg/kg		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.2*		µg/kg		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*50.2*		µg/kg		*50.0*		*100*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716787 - SW846 3546										
Blank (1716787-BLK1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Acenaphthene	< 66.6	U	µg/kg wet	66.6						
Acenaphthylene	< 66.6	U	µg/kg wet	66.6						
Aniline	< 329	U	µg/kg wet	329						
Anthracene	< 66.6	U	µg/kg wet	66.6						
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329						
Benzidine	< 329	U	µg/kg wet	329						
Benzo (a) anthracene	< 66.6	U	µg/kg wet	66.6						
Benzo (a) pyrene	< 66.6	U	µg/kg wet	66.6						
Benzo (b) fluoranthene	< 66.6	U	µg/kg wet	66.6						
Benzo (g,h,i) perylene	< 66.6	U	µg/kg wet	66.6						
Benzo (k) fluoranthene	< 66.6	U	µg/kg wet	66.6						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 167	U	µg/kg wet	167						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 167	U	µg/kg wet	167						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.6	U	µg/kg wet	66.6						
Dibenzo (a,h) anthracene	< 66.6	U	µg/kg wet	66.6						
Dibenzofuran	< 167	U	µg/kg wet	167						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3´-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 167	U	µg/kg wet	167						
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.6	U	µg/kg wet	66.6						
Fluorene	< 66.6	U	µg/kg wet	66.6						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 66.6	U	µg/kg wet	66.6						
Isophorone	< 167	U	µg/kg wet	167						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716787 - SW846 3546										
Blank (1716787-BLK1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
2-Methylnaphthalene	< 66.6	U	µg/kg wet	66.6						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.6	U	µg/kg wet	66.6						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						
4-Nitroaniline	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
2-Nitrophenol	< 167	U	µg/kg wet	167						
4-Nitrophenol	< 1320	U	µg/kg wet	1320						
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.6	U	µg/kg wet	66.6						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.6	U	µg/kg wet	66.6						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.6	U	µg/kg wet	66.6						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 167	U	µg/kg wet	167						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	*1040*		µg/kg wet		*1660*		*62*	*30-130*		
Surrogate: 2-Fluorophenol	*931*		µg/kg wet		*1660*		*56*	*30-130*		
Surrogate: Nitrobenzene-d5	*972*		µg/kg wet		*1660*		*58*	*30-130*		
Surrogate: Phenol-d5	*1060*		µg/kg wet		*1660*		*64*	*30-130*		
Surrogate: Terphenyl-dl4	*1250*		µg/kg wet		*1660*		*75*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*862*		µg/kg wet		*1660*		*52*	*30-130*		
LCS (1716787-BS1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Acenaphthene	**1200**		µg/kg wet	66.5	1660		72	40-140		
Acenaphthylene	**1250**		µg/kg wet	66.5	1660		75	40-140		
Aniline	**679**		µg/kg wet	329	1660		41	40-140		
Anthracene	**1130**		µg/kg wet	66.5	1660		68	40-140		
Azobenzene/Diphenyldiazene	**1120**		µg/kg wet	329	1660		67	40-140		
Benzidine	**370**	QC2	µg/kg wet	329	1660		22	40-140		
Benzo (a) anthracene	**1210**		µg/kg wet	66.5	1660		73	40-140		
Benzo (a) pyrene	**1280**		µg/kg wet	66.5	1660		77	40-140		
Benzo (b) fluoranthene	**1390**		µg/kg wet	66.5	1660		84	40-140		
Benzo (g,h,i) perylene	**1240**		µg/kg wet	66.5	1660		75	40-140		
Benzo (k) fluoranthene	**1140**		µg/kg wet	66.5	1660		69	40-140		
Benzoic acid	**1250**		µg/kg wet	329	1660		75	30-130		
Benzyl alcohol	**1290**		µg/kg wet	329	1660		78	40-140		
Bis(2-chloroethoxy)methane	**1110**		µg/kg wet	329	1660		67	40-140		
Bis(2-chloroethyl)ether	**1180**		µg/kg wet	167	1660		71	40-140		
Bis(2-chloroisopropyl)ether	**1070**		µg/kg wet	167	1660		65	40-140		
Bis(2-ethylhexyl)phthalate	**1200**		µg/kg wet	167	1660		72	40-140		
4-Bromophenyl phenyl ether	**1220**		µg/kg wet	329	1660		73	40-140		
Butyl benzyl phthalate	**1270**		µg/kg wet	329	1660		76	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716787 - SW846 3546										
LCS (1716787-BS1)						Prepared: 02-Oct-17 Analyzed: 03-Oct-17				
Carbazole	**1160**		µg/kg wet	167	1660		69	40-140		
4-Chloro-3-methylphenol	**1230**		µg/kg wet	329	1660		74	30-130		
4-Chloroaniline	**842**		µg/kg wet	167	1660		51	40-140		
2-Chloronaphthalene	**1280**		µg/kg wet	329	1660		77	40-140		
2-Chlorophenol	**1240**		µg/kg wet	167	1660		74	30-130		
4-Chlorophenyl phenyl ether	**1280**		µg/kg wet	329	1660		77	40-140		
Chrysene	**1190**		µg/kg wet	66.5	1660		71	40-140		
Dibenzo (a,h) anthracene	**1320**		µg/kg wet	66.5	1660		80	40-140		
Dibenzofuran	**1230**		µg/kg wet	167	1660		74	40-140		
1,2-Dichlorobenzene	**1260**		µg/kg wet	329	1660		76	40-140		
1,3-Dichlorobenzene	**1200**		µg/kg wet	329	1660		72	40-140		
1,4-Dichlorobenzene	**1220**		µg/kg wet	329	1660		74	40-140		
3,3´-Dichlorobenzidine	**1600**		µg/kg wet	329	1660		96	40-140		
2,4-Dichlorophenol	**1220**		µg/kg wet	167	1660		73	30-130		
Diethyl phthalate	**1280**		µg/kg wet	329	1660		77	40-140		
Dimethyl phthalate	**1290**		µg/kg wet	329	1660		77	40-140		
2,4-Dimethylphenol	**1200**		µg/kg wet	329	1660		72	30-130		
Di-n-butyl phthalate	**1200**		µg/kg wet	329	1660		72	40-140		
4,6-Dinitro-2-methylphenol	**1290**		µg/kg wet	329	1660		77	30-130		
2,4-Dinitrophenol	**1360**		µg/kg wet	329	1660		82	30-130		
2,4-Dinitrotoluene	**1320**		µg/kg wet	167	1660		79	40-140		
2,6-Dinitrotoluene	**1340**		µg/kg wet	167	1660		80	40-140		
Di-n-octyl phthalate	**1320**		µg/kg wet	329	1660		79	40-140		
Fluoranthene	**1170**		µg/kg wet	66.5	1660		70	40-140		
Fluorene	**1200**		µg/kg wet	66.5	1660		72	40-140		
Hexachlorobenzene	**1280**		µg/kg wet	167	1660		77	40-140		
Hexachlorobutadiene	**1300**		µg/kg wet	167	1660		78	40-140		
Hexachlorocyclopentadiene	**1430**		µg/kg wet	167	1660		86	40-140		
Hexachloroethane	**1310**		µg/kg wet	167	1660		79	40-140		
Indeno (1,2,3-cd) pyrene	**1230**		µg/kg wet	66.5	1660		74	40-140		
Isophorone	**1130**		µg/kg wet	167	1660		68	40-140		
2-Methylnaphthalene	**1180**		µg/kg wet	66.5	1660		71	40-140		
2-Methylphenol	**1180**		µg/kg wet	329	1660		71	30-130		
3 & 4-Methylphenol	**1230**		µg/kg wet	329	1660		74	30-130		
Naphthalene	**1160**		µg/kg wet	66.5	1660		70	40-140		
2-Nitroaniline	**1260**		µg/kg wet	329	1660		76	40-140		
3-Nitroaniline	**1230**		µg/kg wet	329	1660		74	40-140		
4-Nitroaniline	**1120**		µg/kg wet	167	1660		67	40-140		
Nitrobenzene	**1210**		µg/kg wet	167	1660		73	40-140		
2-Nitrophenol	**1280**		µg/kg wet	167	1660		77	30-130		
4-Nitrophenol	**1410**		µg/kg wet	1320	1660		85	30-130		
N-Nitrosodimethylamine	**1100**		µg/kg wet	167	1660		66	40-140		
N-Nitrosodi-n-propylamine	**1180**		µg/kg wet	167	1660		71	40-140		
N-Nitrosodiphenylamine	**1050**		µg/kg wet	329	1660		63	40-140		
Pentachlorophenol	**1060**		µg/kg wet	329	1660		64	30-130		
Phenanthrene	**1150**		µg/kg wet	66.5	1660		69	40-140		
Phenol	**1210**		µg/kg wet	329	1660		73	30-130		
Pyrene	**1190**		µg/kg wet	66.5	1660		72	40-140		
Pyridine	**1050**		µg/kg wet	329	1660		63	40-140		
1,2,4-Trichlorobenzene	**1260**		µg/kg wet	329	1660		76	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716787 - SW846 3546										
LCS (1716787-BS1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
1-Methylnaphthalene	**1200**		µg/kg wet	66.5	1660		72	40-140		
2,4,5-Trichlorophenol	**1350**		µg/kg wet	329	1660		81	30-130		
2,4,6-Trichlorophenol	**1320**		µg/kg wet	167	1660		80	30-130		
Pentachloronitrobenzene	**1460**		µg/kg wet	329	1660		88	40-140		
1,2,4,5-Tetrachlorobenzene	**1280**		µg/kg wet	329	1660		77	40-140		
Surrogate: 2-Fluorobiphenyl	*1190*		µg/kg wet		*1660*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*1190*		µg/kg wet		*1660*		*71*	*30-130*		
Surrogate: Nitrobenzene-d5	*1160*		µg/kg wet		*1660*		*70*	*30-130*		
Surrogate: Phenol-d5	*1190*		µg/kg wet		*1660*		*72*	*30-130*		
Surrogate: Terphenyl-dl4	*1200*		µg/kg wet		*1660*		*72*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1340*		µg/kg wet		*1660*		*81*	*30-130*		
LCS Dup (1716787-BSD1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Acenaphthene	**1190**		µg/kg wet	66.5	1660		71	40-140	2	30
Acenaphthylene	**1220**		µg/kg wet	66.5	1660		74	40-140	2	30
Aniline	**854**		µg/kg wet	329	1660		51	40-140	23	30
Anthracene	**1170**		µg/kg wet	66.5	1660		70	40-140	4	30
Azobenzene/Diphenyldiazene	**1190**		µg/kg wet	329	1660		72	40-140	7	30
Benzidine	**351**	QC2	µg/kg wet	329	1660		21	40-140	5	30
Benzo (a) anthracene	**1180**		µg/kg wet	66.5	1660		71	40-140	3	30
Benzo (a) pyrene	**1260**		µg/kg wet	66.5	1660		76	40-140	1	30
Benzo (b) fluoranthene	**1290**		µg/kg wet	66.5	1660		78	40-140	7	30
Benzo (g,h,i) perylene	**1310**		µg/kg wet	66.5	1660		79	40-140	5	30
Benzo (k) fluoranthene	**1190**		µg/kg wet	66.5	1660		72	40-140	5	30
Benzoic acid	**1230**		µg/kg wet	329	1660		74	30-130	2	30
Benzyl alcohol	**1250**		µg/kg wet	329	1660		75	40-140	3	30
Bis(2-chloroethoxy)methane	**1100**		µg/kg wet	329	1660		66	40-140	0.4	30
Bis(2-chloroethyl)ether	**1190**		µg/kg wet	167	1660		71	40-140	0.9	30
Bis(2-chloroisopropyl)ether	**1080**		µg/kg wet	167	1660		65	40-140	0.7	30
Bis(2-ethylhexyl)phthalate	**1180**		µg/kg wet	167	1660		71	40-140	2	30
4-Bromophenyl phenyl ether	**1220**		µg/kg wet	329	1660		74	40-140	0.5	30
Butyl benzyl phthalate	**1270**		µg/kg wet	329	1660		76	40-140	0.06	30
Carbazole	**1320**		µg/kg wet	167	1660		80	40-140	14	30
4-Chloro-3-methylphenol	**1230**		µg/kg wet	329	1660		74	30-130	0.3	30
4-Chloroaniline	**911**		µg/kg wet	167	1660		55	40-140	8	30
2-Chloronaphthalene	**1280**		µg/kg wet	329	1660		77	40-140	0.6	30
2-Chlorophenol	**1250**		µg/kg wet	167	1660		75	30-130	0.7	30
4-Chlorophenyl phenyl ether	**1280**		µg/kg wet	329	1660		77	40-140	0.06	30
Chrysene	**1180**		µg/kg wet	66.5	1660		71	40-140	0.3	30
Dibenzo (a,h) anthracene	**1370**		µg/kg wet	66.5	1660		82	40-140	4	30
Dibenzofuran	**1220**		µg/kg wet	167	1660		74	40-140	0.9	30
1,2-Dichlorobenzene	**1250**		µg/kg wet	329	1660		75	40-140	0.8	30
1,3-Dichlorobenzene	**1210**		µg/kg wet	329	1660		73	40-140	0.8	30
1,4-Dichlorobenzene	**1220**		µg/kg wet	329	1660		74	40-140	0.2	30
3,3´-Dichlorobenzidine	**1640**		µg/kg wet	329	1660		99	40-140	3	30
2,4-Dichlorophenol	**1230**		µg/kg wet	167	1660		74	30-130	0.7	30
Diethyl phthalate	**1260**		µg/kg wet	329	1660		76	40-140	2	30
Dimethyl phthalate	**1270**		µg/kg wet	329	1660		76	40-140	1	30
2,4-Dimethylphenol	**1180**		µg/kg wet	329	1660		71	30-130	1	30
Di-n-butyl phthalate	**1270**		µg/kg wet	329	1660		76	40-140	6	30
4,6-Dinitro-2-methylphenol	**1330**		µg/kg wet	329	1660		80	30-130	3	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1716787 - SW846 3546										
LCS Dup (1716787-BSD1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
2,4-Dinitrophenol	**1330**		µg/kg wet	329	1660		80	30-130	2	30
2,4-Dinitrotoluene	**1300**		µg/kg wet	167	1660		78	40-140	2	30
2,6-Dinitrotoluene	**1320**		µg/kg wet	167	1660		79	40-140	1	30
Di-n-octyl phthalate	**1330**		µg/kg wet	329	1660		80	40-140	1	30
Fluoranthene	**1220**		µg/kg wet	66.5	1660		74	40-140	5	30
Fluorene	**1160**		µg/kg wet	66.5	1660		70	40-140	3	30
Hexachlorobenzene	**1310**		µg/kg wet	167	1660		79	40-140	2	30
Hexachlorobutadiene	**1340**		µg/kg wet	167	1660		80	40-140	3	30
Hexachlorocyclopentadiene	**1370**		µg/kg wet	167	1660		83	40-140	4	30
Hexachloroethane	**1300**		µg/kg wet	167	1660		78	40-140	0.7	30
Indeno (1,2,3-cd) pyrene	**1300**		µg/kg wet	66.5	1660		78	40-140	6	30
Isophorone	**1130**		µg/kg wet	167	1660		68	40-140	0.6	30
2-Methylnaphthalene	**1210**		µg/kg wet	66.5	1660		73	40-140	3	30
2-Methylphenol	**1180**		µg/kg wet	329	1660		71	30-130	0.4	30
3 & 4-Methylphenol	**1210**		µg/kg wet	329	1660		73	30-130	2	30
Naphthalene	**1180**		µg/kg wet	66.5	1660		71	40-140	2	30
2-Nitroaniline	**1240**		µg/kg wet	329	1660		75	40-140	2	30
3-Nitroaniline	**1310**		µg/kg wet	329	1660		79	40-140	7	30
4-Nitroaniline	**1060**		µg/kg wet	167	1660		64	40-140	6	30
Nitrobenzene	**1230**		µg/kg wet	167	1660		74	40-140	1	30
2-Nitrophenol	**1290**		µg/kg wet	167	1660		78	30-130	0.8	30
4-Nitrophenol	**1380**		µg/kg wet	1320	1660		83	30-130	2	30
N-Nitrosodimethylamine	**1050**		µg/kg wet	167	1660		63	40-140	5	30
N-Nitrosodi-n-propylamine	**1130**		µg/kg wet	167	1660		68	40-140	4	30
N-Nitrosodiphenylamine	**1140**		µg/kg wet	329	1660		69	40-140	9	30
Pentachlorophenol	**1060**		µg/kg wet	329	1660		64	30-130	0.3	30
Phenanthrene	**1160**		µg/kg wet	66.5	1660		70	40-140	1	30
Phenol	**1250**		µg/kg wet	329	1660		75	30-130	3	30
Pyrene	**1160**		µg/kg wet	66.5	1660		70	40-140	3	30
Pyridine	**1020**		µg/kg wet	329	1660		62	40-140	2	30
1,2,4-Trichlorobenzene	**1270**		µg/kg wet	329	1660		76	40-140	0.6	30
1-Methylnaphthalene	**1170**		µg/kg wet	66.5	1660		71	40-140	2	30
2,4,5-Trichlorophenol	**1380**		µg/kg wet	329	1660		83	30-130	2	30
2,4,6-Trichlorophenol	**1270**		µg/kg wet	167	1660		76	30-130	4	30
Pentachloronitrobenzene	**1490**		µg/kg wet	329	1660		90	40-140	2	30
1,2,4,5-Tetrachlorobenzene	**1260**		µg/kg wet	329	1660		76	40-140	2	30
Surrogate: 2-Fluorobiphenyl	*1210*		µg/kg wet		*1660*		*73*	*30-130*		
Surrogate: 2-Fluorophenol	*1180*		µg/kg wet		*1660*		*71*	*30-130*		
Surrogate: Nitrobenzene-d5	*1170*		µg/kg wet		*1660*		*70*	*30-130*		
Surrogate: Phenol-d5	*1190*		µg/kg wet		*1660*		*72*	*30-130*		
Surrogate: Terphenyl-dl4	*1220*		µg/kg wet		*1660*		*73*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1380*		µg/kg wet		*1660*		*83*	*30-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1716732 - SW846 3546										
Blank (1716732-BLK1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Aroclor-1016	< 19.5	U	µg/kg wet	19.5						
Aroclor-1016 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1221	< 19.5	U	µg/kg wet	19.5						
Aroclor-1221 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1232	< 19.5	U	µg/kg wet	19.5						
Aroclor-1232 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1242	< 19.5	U	µg/kg wet	19.5						
Aroclor-1242 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1248	< 19.5	U	µg/kg wet	19.5						
Aroclor-1248 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1254	< 19.5	U	µg/kg wet	19.5						
Aroclor-1254 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1260	< 19.5	U	µg/kg wet	19.5						
Aroclor-1260 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1262	< 19.5	U	µg/kg wet	19.5						
Aroclor-1262 [2C]	< 19.5	U	µg/kg wet	19.5						
Aroclor-1268	< 19.5	U	µg/kg wet	19.5						
Aroclor-1268 [2C]	< 19.5	U	µg/kg wet	19.5						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*11.7*		µg/kg wet		*19.5*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.7*		µg/kg wet		*19.5*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*13.6*		µg/kg wet		*19.5*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*15.6*		µg/kg wet		*19.5*		*80*	*30-150*		
LCS (1716732-BS1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Aroclor-1016	**161**		µg/kg wet	19.9	249		65	40-140		
Aroclor-1016 [2C]	**158**		µg/kg wet	19.9	249		64	40-140		
Aroclor-1260	**156**		µg/kg wet	19.9	249		63	40-140		
Aroclor-1260 [2C]	**168**		µg/kg wet	19.9	249		68	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*12.0*		µg/kg wet		*19.9*		*60*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*11.0*		µg/kg wet		*19.9*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*13.0*		µg/kg wet		*19.9*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*14.0*		µg/kg wet		*19.9*		*70*	*30-150*		
LCS Dup (1716732-BSD1)					Prepared: 02-Oct-17 Analyzed: 03-Oct-17					
Aroclor-1016	**154**		µg/kg wet	19.8	247		62	40-140	4	30
Aroclor-1016 [2C]	**154**		µg/kg wet	19.8	247		62	40-140	3	30
Aroclor-1260	**150**		µg/kg wet	19.8	247		61	40-140	4	30
Aroclor-1260 [2C]	**172**		µg/kg wet	19.8	247		70	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*10.9*		µg/kg wet		*19.8*		*55*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*11.9*		µg/kg wet		*19.8*		*60*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*13.9*		µg/kg wet		*19.8*		*70*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717061 - SW846 3051A										
Blank (1717061-BLK1)					Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Thallium	< 2.76	U	mg/kg wet	2.76						
Aluminum	< 4.60	U	mg/kg wet	4.60						
Zinc	< 0.920	U	mg/kg wet	0.920						
Silver	< 1.38	U	mg/kg wet	1.38						
Vanadium	< 1.38	U	mg/kg wet	1.38						
Beryllium	< 0.460	U	mg/kg wet	0.460						
Calcium	**5.02**	J	mg/kg wet	23.0						
Cadmium	< 0.460	U	mg/kg wet	0.460						
Chromium	< 0.920	U	mg/kg wet	0.920						
Iron	**2.37**	J	mg/kg wet	3.68						
Barium	< 0.920	U	mg/kg wet	0.920						
Duplicate (1717061-DUP1)			**Source: SC39794-04**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Vanadium	**7.48**	QR6	mg/kg dry	1.54		5.37			33	20
Silver	< 1.54	U	mg/kg dry	1.54		BRL				20
Aluminum	**5010**	QR9	mg/kg dry	5.15		3880			25	20
Beryllium	**0.287**	QR8, J	mg/kg dry	0.515		0.229			22	20
Calcium	**16300**	QR6	mg/kg dry	25.7		13100			21	20
Cadmium	**0.606**	QR8	mg/kg dry	0.515		0.436			33	20
Chromium	**5.65**	QR6	mg/kg dry	1.03		4.29			28	20
Zinc	**36.5**		mg/kg dry	1.03		30.8			17	20
Iron	**13600**	QR6	mg/kg dry	4.12		10700			24	20
Thallium	< 3.09	U	mg/kg dry	3.09		BRL				20
Barium	**58.6**		mg/kg dry	1.03		47.8			20	20
Matrix Spike (1717061-MS1)			**Source: SC39794-04**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Calcium	**11600**	QM2	mg/kg dry	27.4	686	13100	-225	75-125		
Zinc	**153**		mg/kg dry	1.10	137	30.8	89	75-125		
Vanadium	**124**		mg/kg dry	1.65	137	5.37	87	75-125		
Thallium	**138**		mg/kg dry	3.29	137	BRL	101	75-125		
Iron	**13100**	QM2	mg/kg dry	4.39	137	10700	1710	75-125		
Cadmium	**116**		mg/kg dry	0.549	137	0.436	85	75-125		
Beryllium	**126**		mg/kg dry	0.549	137	0.229	92	75-125		
Aluminum	**5790**	QM2	mg/kg dry	5.49	137	3880	1390	75-125		
Silver	**109**		mg/kg dry	1.65	137	BRL	80	75-125		
Chromium	**125**		mg/kg dry	1.10	137	4.29	88	75-125		
Barium	**177**		mg/kg dry	1.10	137	47.8	94	75-125		
Matrix Spike Dup (1717061-MSD1)			**Source: SC39794-04**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Calcium	**12000**	QM2	mg/kg dry	27.3	683	13100	-164	75-125	4	20
Beryllium	**120**		mg/kg dry	0.547	137	0.229	88	75-125	5	20
Aluminum	**7700**	QM2	mg/kg dry	5.47	137	3880	2790	75-125	28	20
Silver	**91.3**	QM8	mg/kg dry	1.64	137	BRL	67	75-125	18	20
Cadmium	**111**		mg/kg dry	0.547	137	0.436	81	75-125	5	20
Chromium	**121**		mg/kg dry	1.09	137	4.29	86	75-125	3	20
Iron	**15200**	QM2	mg/kg dry	4.37	137	10700	3310	75-125	15	20
Thallium	**136**		mg/kg dry	3.28	137	BRL	99	75-125	2	20
Vanadium	**122**		mg/kg dry	1.64	137	5.37	85	75-125	2	20
Zinc	**149**		mg/kg dry	1.09	137	30.8	87	75-125	2	20
Barium	**183**		mg/kg dry	1.09	137	47.8	99	75-125	3	20
Post Spike (1717061-PS1)			**Source: SC39794-04**		Prepared: 06-Oct-17 Analyzed: 09-Oct-17					
Aluminum	**3620**	QM2	mg/kg dry	5.16	129	3880	-206	80-120		
Zinc	**140**		mg/kg dry	1.03	129	30.8	85	80-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717061 - SW846 3051A										
Post Spike (1717061-PS1)			**Source: SC39794-04**			Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Vanadium	**109**		mg/kg dry	1.55	129	5.37	80	80-120		
Thallium	**126**		mg/kg dry	3.10	129	BRL	98	80-120		
Iron	**9730**	QM2	mg/kg dry	4.13	129	10700	-768	80-120		
Chromium	**109**		mg/kg dry	1.03	129	4.29	81	80-120		
Cadmium	**111**		mg/kg dry	0.516	129	0.436	86	80-120		
Calcium	**12100**	QM2	mg/kg dry	25.8	645	13100	-160	80-120		
Beryllium	**112**		mg/kg dry	0.516	129	0.229	86	80-120		
Silver	**104**		mg/kg dry	1.55	129	BRL	81	80-120		
Barium	**146**	QM9	mg/kg dry	1.03	129	47.8	76	80-120		
Reference (1717061-SRM1)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Vanadium	**33.6**		mg/kg wet	1.50	42.3		80	78.1-121.9		
Calcium	**2880**		mg/kg wet	25.0	3280		88	82.9-117.3		
Iron	**6170**		mg/kg wet	4.00	7900		78	47.2-152.6		
Silver	**16.6**		mg/kg wet	1.50	18.9		88	75.8-124.2		
Aluminum	**2990**		mg/kg wet	5.00	4560		66	54.5-146		
Beryllium	**41.6**		mg/kg wet	0.500	47.8		87	82.9-117.4		
Cadmium	**31.3**		mg/kg wet	0.500	37.2		84	83.1-116.9		
Chromium	**44.8**		mg/kg wet	1.00	53.0		84	80.1-119.6		
Thallium	**50.8**		mg/kg wet	3.00	52.5		97	79.2-120.8		
Zinc	**100**		mg/kg wet	1.00	116		86	83-117		
Barium	**85.2**		mg/kg wet	1.00	103		83	82.8-117.2		
Reference (1717061-SRM2)						Prepared: 06-Oct-17 Analyzed: 09-Oct-17				
Zinc	**99.6**		mg/kg wet	1.00	112		89	83-117		
Iron	**5620**		mg/kg wet	4.00	7640		74	47.2-152.6		
Vanadium	**32.4**		mg/kg wet	1.50	40.9		79	78.1-121.9		
Silver	**16.2**		mg/kg wet	1.50	18.3		89	75.8-124.2		
Aluminum	**2760**		mg/kg wet	5.00	4410		63	54.5-146		
Thallium	**50.3**		mg/kg wet	3.00	50.8		99	79.2-120.8		
Chromium	**44.0**		mg/kg wet	1.00	51.3		86	80.1-119.6		
Calcium	**2930**		mg/kg wet	25.0	3170		92	82.9-117.3		
Beryllium	**41.1**		mg/kg wet	0.500	46.2		89	82.9-117.4		
Cadmium	**31.3**		mg/kg wet	0.500	35.9		87	83.1-116.9		
Barium	**83.8**		mg/kg wet	1.00	99.5		84	82.8-117.2		
Batch 1717245 - SW846 3051A										
Blank (1717245-BLK1)						Prepared & Analyzed: 10-Oct-17				
Potassium	< 50.0	U	mg/kg wet	50.0						
Sodium	**142**	J	mg/kg wet	150						
Copper	< 1.00	U	mg/kg wet	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717245 - SW846 3051A										
Blank (1717245-BLK1)					Prepared & Analyzed: 10-Oct-17					
Antimony	< 5.00	U	mg/kg wet	5.00						
Selenium	< 1.50	U	mg/kg wet	1.50						
Arsenic	< 1.50	U	mg/kg wet	1.50						
Duplicate (1717245-DUP1)			**Source: SC39794-04**		Prepared & Analyzed: 10-Oct-17					
Sodium	**106**	J	mg/kg dry	154		91.6			15	20
Potassium	**425**		mg/kg dry	51.5		357			17	20
Antimony	< 5.15	U	mg/kg dry	5.15		BRL				20
Selenium	< 1.54	U	mg/kg dry	1.54		BRL				20
Arsenic	**9.26**	QR6	mg/kg dry	1.54		5.22			56	20
Copper	**14.7**		mg/kg dry	1.03		12.7			15	20
Matrix Spike (1717245-MS1)			**Source: SC39794-04**		Prepared & Analyzed: 10-Oct-17					
Potassium	**1690**		mg/kg dry	54.9	1370	357	97	75-125		
Sodium	**689**		mg/kg dry	165	686	91.6	87	75-125		
Arsenic	**132**		mg/kg dry	1.65	137	5.22	92	75-125		
Copper	**152**		mg/kg dry	1.10	137	12.7	102	75-125		
Antimony	**117**		mg/kg dry	5.49	137	BRL	85	75-125		
Selenium	**122**		mg/kg dry	1.65	137	BRL	89	75-125		
Matrix Spike Dup (1717245-MSD1)			**Source: SC39794-04**		Prepared & Analyzed: 10-Oct-17					
Potassium	**2260**	QM7	mg/kg dry	54.7	1370	357	139	75-125	29	20
Sodium	**729**		mg/kg dry	164	683	91.6	93	75-125	6	20
Antimony	**112**		mg/kg dry	5.47	137	BRL	82	75-125	4	20
Selenium	**117**		mg/kg dry	1.64	137	BRL	86	75-125	4	20
Copper	**147**		mg/kg dry	1.09	137	12.7	99	75-125	3	20
Arsenic	**128**		mg/kg dry	1.64	137	5.22	90	75-125	3	20
Post Spike (1717245-PS1)			**Source: SC39794-04**		Prepared & Analyzed: 10-Oct-17					
Potassium	**981**	QM9	mg/kg dry	51.6	1290	357	48	80-120		
Sodium	**404**	QM9	mg/kg dry	155	645	91.6	48	80-120		
Antimony	**100**	QM9	mg/kg dry	5.16	129	BRL	78	80-120		
Arsenic	**107**	QM9	mg/kg dry	1.55	129	5.22	79	80-120		
Selenium	**101**	QM9	mg/kg dry	1.55	129	BRL	79	80-120		
Copper	**98.7**	QM9	mg/kg dry	1.03	129	12.7	67	80-120		
Reference (1717245-SRM1)					Prepared & Analyzed: 10-Oct-17					
Sodium	**487**		mg/kg wet	150	426		114	71.8-128.2		
Potassium	**990**		mg/kg wet	50.0	1260		79	71.1-128.5		
Selenium	**28.0**		mg/kg wet	1.50	31.5		89	78.2-121.9		
Antimony	**84.9**		mg/kg wet	5.00	60.8		140	25-204.3		
Copper	**76.2**		mg/kg wet	1.00	79.5		96	81.7-117.6		
Arsenic	**13.5**		mg/kg wet	1.50	15.4		88	70.3-130.1		
Reference (1717245-SRM2)					Prepared & Analyzed: 10-Oct-17					
Sodium	**512**		mg/kg wet	150	412		124	71.8-128.2		
Potassium	**936**		mg/kg wet	50.0	1220		77	71.1-128.5		
Copper	**73.4**		mg/kg wet	1.00	76.9		96	81.7-117.6		
Arsenic	**13.0**		mg/kg wet	1.50	14.9		87	70.3-130.1		
Antimony	**77.4**		mg/kg wet	5.00	58.8		132	25-204.3		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717245 - SW846 3051A										
Reference (1717245-SRM2)					Prepared & Analyzed: 10-Oct-17					
Selenium	**26.9**		mg/kg wet	1.50	30.5		88	78.2-121.9		
Batch 1717246 - SW846 3051A										
Blank (1717246-BLK1)					Prepared & Analyzed: 11-Oct-17					
Cobalt	< 0.967	U	mg/kg wet	0.967						
Nickel	< 0.967	U	mg/kg wet	0.967						
Magnesium	< 4.83	U	mg/kg wet	4.83						
Lead	< 1.45	U	mg/kg wet	1.45						
Duplicate (1717246-DUP1)			**Source: SC39794-04**		Prepared & Analyzed: 11-Oct-17					
Lead	**10.3**		mg/kg dry	1.58		10.4			2	20
Nickel	**11.9**		mg/kg dry	1.05		11.5			3	20
Magnesium	**2680**		mg/kg dry	5.26		2790			4	20
Cobalt	**5.87**		mg/kg dry	1.05		5.78			2	20
Matrix Spike (1717246-MS1)			**Source: SC39794-04**		Prepared & Analyzed: 11-Oct-17					
Lead	**120**		mg/kg dry	1.58	132	10.4	83	75-125		
Nickel	**131**		mg/kg dry	1.05	132	11.5	91	75-125		
Magnesium	**2960**	QM2	mg/kg dry	5.27	132	2790	128	75-125		
Cobalt	**125**		mg/kg dry	1.05	132	5.78	90	75-125		
Matrix Spike Dup (1717246-MSD1)			**Source: SC39794-04**		Prepared & Analyzed: 11-Oct-17					
Lead	**125**		mg/kg dry	1.63	136	10.4	85	75-125	4	20
Nickel	**136**		mg/kg dry	1.09	136	11.5	92	75-125	4	20
Magnesium	**3130**	QM2	mg/kg dry	5.43	136	2790	247	75-125	5	20
Cobalt	**130**		mg/kg dry	1.09	136	5.78	91	75-125	4	20
Post Spike (1717246-PS1)			**Source: SC39794-04**		Prepared & Analyzed: 11-Oct-17					
Lead	**117**		mg/kg dry	1.53	128	10.4	83	80-120		
Cobalt	**121**		mg/kg dry	1.02	128	5.78	90	80-120		
Magnesium	**2660**	QM2	mg/kg dry	5.11	128	2790	-100	80-120		
Nickel	**126**		mg/kg dry	1.02	128	11.5	90	80-120		
Reference (1717246-SRM1)					Prepared & Analyzed: 11-Oct-17					
Nickel	**63.2**		mg/kg wet	1.00	65.8		96	82.9-117.1		
Lead	**64.8**		mg/kg wet	1.50	70.9		91	82-117.3		
Cobalt	**25.1**		mg/kg wet	1.00	26.2		96	84-115.8		
Magnesium	**1210**		mg/kg wet	5.00	1410		86	76.8-123.6		
Reference (1717246-SRM2)					Prepared & Analyzed: 11-Oct-17					
Magnesium	**1180**		mg/kg wet	5.00	1400		85	76.8-123.6		
Nickel	**62.1**		mg/kg wet	1.00	65.2		95	82.9-117.1		
Lead	**64.7**		mg/kg wet	1.50	70.3		92	82-117.3		
Cobalt	**24.7**		mg/kg wet	1.00	26.0		95	84-115.8		
Batch 1717358 - SW846 3051A										
Blank (1717358-BLK1)					Prepared: 11-Oct-17 Analyzed: 12-Oct-17					
Manganese	< 0.967	U	mg/kg wet	0.967						
Duplicate (1717358-DUP1)			**Source: SC39794-04**		Prepared: 11-Oct-17 Analyzed: 12-Oct-17					
Manganese	**1110**	QR6, D	mg/kg dry	5.26		706			45	20
Matrix Spike (1717358-MS1)			**Source: SC39794-04**		Prepared: 11-Oct-17 Analyzed: 12-Oct-17					
Manganese	**730**	QM4X, D	mg/kg dry	5.27	132	706	18	75-125		
Matrix Spike Dup (1717358-MSD1)			**Source: SC39794-04**		Prepared: 11-Oct-17 Analyzed: 12-Oct-17					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 6010C										
Batch 1717358 - SW846 3051A										
Matrix Spike Dup (1717358-MSD1)			**Source: SC39794-04**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Manganese	**763**	QM4X, D	mg/kg dry	5.43	136	706	42	75-125	4	20
Post Spike (1717358-PS1)			**Source: SC39794-04**			Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Manganese	**1410**	D	mg/kg dry	5.11	639	706	111	80-120		
Reference (1717358-SRM1)						Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Manganese	**122**		mg/kg wet	1.00	138		88	81.5-118.5		
Reference (1717358-SRM2)						Prepared: 11-Oct-17 Analyzed: 12-Oct-17				
Manganese	**121**		mg/kg wet	1.00	136		88	81.5-118.5		
SW846 7471B										
Batch 1717062 - EPA200/SW7000 Series										
Blank (1717062-BLK1)						Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	< 0.0299	U	mg/kg wet	0.0299						
Duplicate (1717062-DUP1)			**Source: SC39794-04**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	< 0.0328	U	mg/kg dry	0.0328		BRL				20
Matrix Spike (1717062-MS1)			**Source: SC39794-04**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	**0.265**		mg/kg dry	0.0314	0.218	BRL	122	75-125		
Matrix Spike Dup (1717062-MSD1)			**Source: SC39794-04**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	**0.272**		mg/kg dry	0.0332	0.231	BRL	118	75-125	3	20
Post Spike (1717062-PS1)			**Source: SC39794-04**			Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	**0.248**		mg/kg dry	0.0321	0.223	BRL	111	80-120		
Reference (1717062-SRM1)						Prepared: 06-Oct-17 Analyzed: 10-Oct-17				
Mercury	**2.55**	D	mg/kg wet	0.600	2.32		110	72.1-128.1		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404154A - 404154-										
BLK (BZ15281-BLK)						Prepared: 04-Oct-17 Analyzed: 05-Oct-17				
Methoxychlor	**ND**	c2	ug/Kg	3.3				-		
Endosulfan sulfate	**ND**	c2	ug/Kg	3.3				-		
Endrin	**ND**	c2	ug/Kg	3.3				-		
Endrin aldehyde	**ND**	c2	ug/Kg	3.3				-		
Endrin ketone	**ND**	c2	ug/Kg	3.3				-		
g-BHC	**ND**	c2	ug/Kg	1.0				-		
g-Chlordane	**ND**	c2	ug/Kg	3.3				-		
Heptachlor epoxide	**ND**	c2	ug/Kg	3.3				-		
Toxaphene	**NR**	c2	ug/Kg	130				-		
a-Chlordane	**ND**	c2	ug/Kg	3.3				-		
Endosulfan II	**ND**	c2	ug/Kg	3.3				-		
Heptachlor	**ND**	c2	ug/Kg	3.3				-		
Dieldrin	**ND**	c2	ug/Kg	1.0				-		
d-BHC	**ND**	c2	ug/Kg	3.3				-		
Chlordane	**NR**	c2	ug/Kg	33				-		
b-BHC	**ND**	c2	ug/Kg	1.0				-		
Aldrin	**ND**	c2	ug/Kg	1.0				-		
a-BHC	**ND**	c2	ug/Kg	1.0				-		
4,4' -DDT	**ND**	c2	ug/Kg	1.7				-		
4,4' -DDE	**ND**	c2	ug/Kg	1.7				-		
4,4' -DDD	**ND**	c2	ug/Kg	1.7				-		
Endosulfan I	**ND**	c2	ug/Kg	3.3				-		
Surrogate: % TCMX	*74*	c2	ug/Kg		*100*			*40-140*		
Surrogate: % DCBP	*85*	c2	ug/Kg		*100*			*40-140*		
LCS (BZ15281-LCS)						Prepared: 04-Oct-17 Analyzed: 05-Oct-17				
Dieldrin	**42.22**	c2	ug/Kg	1.0	50		84	40-140		30
Endosulfan I	**41.38**	c2	ug/Kg	3.3	50		83	40-140		30
Methoxychlor	**42.56**	c2	ug/Kg	3.3	50		85	40-140		30
Heptachlor epoxide	**43.02**	c2	ug/Kg	3.3	50		86	40-140		30
Heptachlor	**43.23**	c2	ug/Kg	3.3	50		86	40-140		30
g-Chlordane	**44.35**	c2	ug/Kg	3.3	50		89	40-140		30
g-BHC	**41.24**	c2	ug/Kg	1.0	50		82	40-140		30
Endrin ketone	**40.44**	c2	ug/Kg	3.3	50		81	40-140		30
Endrin aldehyde	**34.56**	c2	ug/Kg	3.3	50		69	40-140		30
Endrin	**47.20**	c2	ug/Kg	3.3	50		94	40-140		30
Endosulfan sulfate	**40.90**	c2	ug/Kg	3.3	50		82	40-140		30
Toxaphene	**ND**	c2	ug/Kg	130	50		NA	40-140		30
4,4' -DDD	**40.48**	c2	ug/Kg	1.7	50		81	40-140		30
Endosulfan II	**43.33**	c2	ug/Kg	3.3	50		87	40-140		30
d-BHC	**36.35**	c2	ug/Kg	3.3	50		73	40-140		30
Chlordane	**44.35**	c2	ug/Kg	33	50		89	40-140		30
b-BHC	**40.16**	c2	ug/Kg	1.0	50		80	40-140		30
Aldrin	**39.89**	c2	ug/Kg	1.0	50		80	40-140		30
a-Chlordane	**41.02**	c2	ug/Kg	3.3	50		82	40-140		30
a-BHC	**41.28**	c2	ug/Kg	1.0	50		83	40-140		30
4,4' -DDT	**39.66**	c2	ug/Kg	1.7	50		79	40-140		30
4,4' -DDE	**39.48**	c2	ug/Kg	1.7	50		79	40-140		30
Surrogate: % TCMX	*84.96*	c2	ug/Kg		*100*		*85*	*40-140*		
Surrogate: % DCBP	*90.12*	c2	ug/Kg		*100*		*90*	*40-140*		
LCSD (BZ15281-LCSD)						Prepared: 04-Oct-17 Analyzed: 05-Oct-17				

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404154A - 404154-										
LCSD (BZ15281-LCSD)					Prepared: 04-Oct-17 Analyzed: 05-Oct-17					
Endrin aldehyde	**30.09**	c2	%	%	50		60	40-140	14.0	30
Endosulfan I	**39.02**	c2	%	%	50		78	40-140	6.2	30
Heptachlor epoxide	**37.66**	c2	%	%	50		75	40-140	13.7	30
Heptachlor	**37.56**	c2	%	%	50		75	40-140	13.7	30
g-Chlordane	**38.81**	c2	%	%	50		78	40-140	13.2	30
Endrin ketone	**35.35**	c2	%	%	50		71	40-140	13.2	30
Toxaphene	**ND**	c2	%	%	50		NA	40-140	NC	30
Endrin	**39.89**	c2	%	%	50		80	40-140	16.1	30
Endosulfan sulfate	**35.08**	c2	%	%	50		70	40-140	15.8	30
Endosulfan II	**37.14**	c2	%	%	50		74	40-140	16.1	30
Methoxychlor	**36.34**	c2	%	%	50		73	40-140	15.2	30
4,4' -DDT	**34.00**	c2	%	%	50		68	40-140	15.0	30
g-BHC	**35.78**	c2	%	%	50		72	40-140	13.0	30
Dieldrin	**35.82**	c2	%	%	50		72	40-140	15.4	30
4,4' -DDE	**34.26**	c2	%	%	50		69	40-140	13.5	30
a-BHC	**34.22**	c2	%	%	50		68	40-140	19.9	30
a-Chlordane	**33.37**	c2	%	%	50		67	40-140	20.1	30
Aldrin	**34.81**	c2	%	%	50		70	40-140	13.3	30
b-BHC	**34.09**	c2	%	%	50		68	40-140	16.2	30
Chlordane	**38.81**	c2	%	%	50		78	40-140	13.2	30
d-BHC	**31.78**	c2	%	%	50		64	40-140	13.1	30
4,4' -DDD	**35.19**	c2	%	%	50		70	40-140	14.6	30
Surrogate: % DCBP	*73.40*	c2	%		*100*		*73*	*40-140*		
Surrogate: % TCMX	*72.56*	c2	%		*100*		*73*	*40-140*		
MS (BZ15281-MS)			**Source: BZ15281**		Prepared: 04-Oct-17 Analyzed: 05-Oct-17					
Endosulfan I	**40.03**	c2	ug/Kg	3.3	50		79	30-150		30
Endosulfan II	**42.24**	c2	ug/Kg	3.3	50		81	30-150		30
Endosulfan sulfate	**40.11**	c2	ug/Kg	3.3	50		77	30-150		30
Endrin	**38.77**	c2	ug/Kg	3.3	50		76	30-150		30
Endrin aldehyde	**37.40**	c2	ug/Kg	3.3	50		73	30-150		30
Endrin ketone	**39.21**	c2	ug/Kg	3.3	50		78	30-150		30
g-BHC	**38.41**	c2	ug/Kg	1.0	50		74	30-150		30
Dieldrin	**39.74**	c2	ug/Kg	1.0	50		79	30-150		30
Heptachlor	**37.33**	c2	ug/Kg	3.3	50		74	30-150		30
4,4' -DDE	**38.45**	c2	ug/Kg	1.7	50		73	30-150		30
g-Chlordane	**37.70**	c2	ug/Kg	3.3	50		75	30-150		30
d-BHC	**36.35**	c2	ug/Kg	3.3	50		71	30-150		30
Chlordane	**37.70**	c2	ug/Kg	33	50		75	30-150		30
b-BHC	**37.93**	c2	ug/Kg	1.0	50		69	30-150		30
Aldrin	**34.17**	c2	ug/Kg	1.0	50		68	30-150		30
a-Chlordane	**39.77**	c2	ug/Kg	3.3	50		80	30-150		30
4,4' -DDT	**41.57**	c2	ug/Kg	1.7	50		78	30-150		30
4,4' -DDD	**40.91**	c2	ug/Kg	1.7	50		82	30-150		30
Toxaphene	**ND**	c2	ug/Kg	130	50		NA	30-150		30
Methoxychlor	**39.32**	c2	ug/Kg	3.3	50		68	30-150		30
Heptachlor epoxide	**35.80**	c2	ug/Kg	3.3	50		70	30-150		30
a-BHC	**35.87**	c2	ug/Kg	1.0	50		71	30-150		30
Surrogate: % TCMX	*76.05*	c2	ug/Kg		*100*		*76*	*30-150*		
Surrogate: % DCBP	*87.23*	c2	ug/Kg		*100*		*87*	*30-150*		
MSD (BZ15281-MSD)			**Source: BZ15281**		Prepared: 04-Oct-17 Analyzed: 05-Oct-17					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8081B										
Batch 404154A - 404154-										
MSD (BZ15281-MSD)			**Source: BZ15281**		Prepared: 04-Oct-17 Analyzed: 05-Oct-17					
Endrin aldehyde	**29.86**	c2	%	%	50		58	30-150	22.9	30
Toxaphene	**ND**	c2	%	%	50		NA	30-150	NC	30
Methoxychlor	**34.46**	c2	%	%	50		58	30-150	15.9	30
Heptachlor epoxide	**34.03**	c2	%	%	50		66	30-150	5.9	30
Heptachlor	**34.01**	c2	%	%	50		67	30-150	9.9	30
g-Chlordane	**33.27**	c2	%	%	50		67	30-150	11.3	30
Endrin ketone	**34.07**	c2	%	%	50		68	30-150	13.7	30
Endrin	**33.67**	c2	%	%	50		65	30-150	15.6	30
Endosulfan sulfate	**34.31**	c2	%	%	50		65	30-150	16.9	30
Endosulfan II	**36.44**	c2	%	%	50		69	30-150	16.0	30
Endosulfan I	**34.50**	c2	%	%	50		68	30-150	15.0	30
a-BHC	**32.10**	c2	%	%	50		63	30-150	11.9	30
g-BHC	**33.90**	c2	%	%	50		65	30-150	12.9	30
Dieldrin	**34.69**	c2	%	%	50		69	30-150	13.5	30
4,4' -DDD	**36.13**	c2	%	%	50		72	30-150	13.0	30
4,4' -DDE	**33.75**	c2	%	%	50		64	30-150	13.1	30
4,4' -DDT	**34.03**	c2	%	%	50		63	30-150	21.3	30
a-Chlordane	**34.63**	c2	%	%	50		69	30-150	14.8	30
Aldrin	**30.98**	c2	%	%	50		61	30-150	10.9	30
b-BHC	**35.18**	c2	%	%	50		64	30-150	7.5	30
Chlordane	**33.27**	c2	%	%	50		67	30-150	11.3	30
d-BHC	**31.76**	c2	%	%	50		62	30-150	13.5	30
Surrogate: % TCMX	*69.41*	c2	%		*100*		*69*	*30-150*		
Surrogate: % DCBP	*80.82*	c2	%		*100*		*81*	*30-150*		
SW8151A										
Batch 403997A - 403997-										
BLK (BZ13899-BLK)					Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
2,4-DB	**ND**		ug/Kg	1700				-		
Dicamba	**ND**		ug/Kg	83				-		
Dalapon	**ND**		ug/Kg	83				-		
Dichloroprop	**ND**		ug/Kg	170				-		
2,4-D	**ND**		ug/Kg	170				-		
2,4,5-TP (Silvex)	**ND**		ug/Kg	83				-		
2,4,5-T	**ND**		ug/Kg	83				-		
Dinoseb	**ND**		ug/Kg	170				-		
Surrogate: % DCAA	*59*		ug/Kg		*1000*			*30-150*		
LCS (BZ13899-LCS)					Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
Dalapon	**49.60**		ug/Kg	83	100		50	40-140		30
Dichloroprop	**168.9**		ug/Kg	170	200		84	40-140		30
Dinoseb	**67.26**		ug/Kg	170	100		67	40-140		30
Dicamba	**70.99**		ug/Kg	83	100		71	40-140		30
2,4-D	**135.1**		ug/Kg	170	200		68	40-140		30
2,4,5-TP (Silvex)	**74.37**		ug/Kg	83	100		74	40-140		30
2,4,5-T	**70.94**		ug/Kg	83	100		71	40-140		30
2,4-DB	**658.5**		ug/Kg	1700	1000		66	40-140		30
Surrogate: % DCAA	*576.4*		ug/Kg		*1000*		*58*	*30-150*		
LCSD (BZ13899-LCSD)					Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
2,4-D	**147.4**		ug/Kg	%	200		74	40-140	8.5	30
Dinoseb	**70.72**		ug/Kg	%	100		71	40-140	5.8	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW8151A										
Batch 403997A - 403997-										
LCSD (BZ13899-LCSD)					Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
Dichloroprop	**171.9**		ug/Kg	%	200		86	40-140	2.4	30
Dicamba	**72.66**		ug/Kg	%	100		73	40-140	2.8	30
2,4-DB	**708.6**		ug/Kg	%	1000		71	40-140	7.3	30
2,4,5-TP (Silvex)	**72.92**		ug/Kg	%	100		73	40-140	1.4	30
2,4,5-T	**70.95**		ug/Kg	%	100		71	40-140	0.0	30
Dalapon	**48.55**		ug/Kg	%	100		49	40-140	2.0	30
Surrogate: % DCAA	*584.4*		ug/Kg		*1000*		*58*	*30-150*		
MS (BZ13899-MS)			**Source: SC39794-04**		Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
Dalapon	**55.56**		ug/Kg	83	100	BRL	56	30-150		30
2,4,5-T	**65.68**		ug/Kg	83	100	BRL	66	30-150		30
Dichloroprop	**164.0**		ug/Kg	170	200	BRL	82	30-150		30
Dicamba	**68.23**		ug/Kg	83	100	BRL	68	30-150		30
Dinoseb	**62.91**		ug/Kg	170	100	BRL	63	10-110		30
2,4-DB	**635.3**		ug/Kg	1700	1000	BRL	64	30-150		30
2,4,5-TP (Silvex)	**69.20**		ug/Kg	83	100	BRL	69	30-150		30
2,4-D	**131.9**		ug/Kg	170	200	BRL	66	30-150		30
Surrogate: % DCAA	*566.6*		ug/Kg		*1000*		*57*	*30-150*		
MSD (BZ13899-MSD)			**Source: SC39794-04**		Prepared: 03-Oct-17 Analyzed: 04-Oct-17					
Dinoseb	**69.60**		%	%	100	BRL	70	10-110	10.5	30
2,4,5-T	**71.93**		%	%	100	BRL	72	30-150	8.7	30
2,4,5-TP (Silvex)	**75.59**		%	%	100	BRL	76	30-150	9.7	30
2,4-D	**145.8**		%	%	200	BRL	73	30-150	10.1	30
2,4-DB	**662.3**		%	%	1000	BRL	66	30-150	3.1	30
Dalapon	**55.58**		%	%	100	BRL	56	30-150	0.0	30
Dicamba	**74.60**		%	%	100	BRL	75	30-150	9.8	30
Dichloroprop	**185.7**		%	%	200	BRL	93	30-150	12.6	30
Surrogate: % DCAA	*649.0*		%		*1000*		*65*	*30-150*		

Analyte(s)	Column	% Breakdown	Limit

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC39794-01	*Soil Pile-1*	9/28/2017 9:34 AM
SC39794-02	*Soil Pile-2*	9/28/2017 9:34 AM
SC39794-03	*Soil Pile-3*	9/28/2017 9:34 AM

Notes and Definitions

c2	Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.
D	Data reported from a dilution
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM4X	The spike recovery was outside of QC acceptance limits for the MS, MSD and/or PS due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

SC39794 BM

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5 day TAT

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Day Env. Inc
1563 Lyell Avenue

Telephone #: 585 454 0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o Sol Epoxy Inc
211 Franklin St, Olean, NY 14750

P.O No.: ____ Quote/RQN: ____

Project No: 17884S-13
Site Name: 4581 Lower Birch Run Rd, Allegany (LBRR)
Location: Allegany State: NY
Sampler(s): C. Hampton

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=____ 12=____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=____ X2=____ X3=____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: VOC (Full List)	SVOC (Full List)	TAL Metals	PCB	Pesticide	Herbicide	Check if chlorinated
SC39794-01	Soil pile - 1	9/25/17	12:15	G		3		2		X						☐
02	Soil Pile - 2	9/25/17	12:30	G		3		2		X						☐
03	Soil Pile -3	9/25/17	12:45	G		3		2		X						☐
04	Soil Pile - Comp	9/25/17		C							3:1 Comp	3:1 Comp	3:1 Comp	3:1 Comp	3:1 Comp	☐
																☐
																☐
																☐
																☐
																☐
																☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☒ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: ____
State-specific reporting standards:

Where indicated, Composite 3:1 and test a Single Sample

Note: Samples frozen after Collection 9/25/17

Relinquished by:	Received by:	Date:	Time:
fedex	JM	9/28/17	934

Temp °C: Observed 4.5 | Correction Factor 0 | Corrected 4.5 | IR ID # C1

☒ EDD format: Equis EDD
☐ E-mail to: ____

Condition upon receipt: Custody Seals: ☒ Present ☒ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

ORIGIN ID:JHWA (716) 372-6300
TED CANFIELD
SOLEPOXY INC
211 W FRANKLIN ST

OLEAN, NY 14760
UNITED STATES US

SHIP DATE: 27SEP17
ACTWGT: 22.00
CAD: 0524226/
DIMS: 19x14x1

BILL SENDER

TO **SAMPLE RECEIVING**
EUROFINS SPECTRUM ANALYTICAL
11 ALMGREN DRIVE

AGAWAM MA 01001
(413) 789-9018 REF: SOIL SAMPLES
DEPT: SHIPPER

4 10:30 E 1290 09.28

RT 745 ST 17

FedEx Express

J16121610100

TRK# 0201 **7123 9222 1290**

THU - 28 SEP 10:30A
PRIORITY OVERNIGHT

EB EHTA

01001
MA-US **BDL**

SC39794 BY

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page ____ of ____

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5 day TAT

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: Day Env. Inc
1563 Lyell Avenue

Telephone #: 585 454 0210
Project Mgr: C. Hampton

Invoice To: Jeff Belt c/o Sol Epoxy Inc
211 Franklin St, Olean, NY 14750

P.O No.: ____ Quote/RQN: ____

Project No: 3884S-13
Site Name: 4581 Lower Birch Run Rd, Allegany (LBRR)
Location: Allegheny State: NY
Sampler(s): C. Hampten

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11=____ 12=____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1=____ X2=____ X3=____

G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: VOC (Full list)	SVOC (Full list)	TAL Metals	PCB	Pesticide	Herbicide	Check if chlorinated
SC39794 01	Soil pile - 1	9/25/17	12:15	G		3		2		X						☐
02	Soil Pile - 2	9/25/17	12:30	G		3		2		X						☐
03	Soil Pile -3	9/25/17	12:45	G		3		2		X						☐
04	Soil Pile - Comp	9/25/17		C							3:1 Comp	3:1 Comp	3:1 Comp	3:1 Comp	3:1 Comp	☐
05	Trip Blank									X						☐
																☐
																☐
																☐
																☐
																☐

List Preservative Code below:

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☐ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☒ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other: ____
State-specific reporting standards:

Where indicated, Composite 3:1 and test a Single Sample

Note: Samples frozen after Collection 9/25/17

TB added per client request

Relinquished by:	Received by:	Date:	Time:	Temp °C
fedex	JW	9/28/17	934	Observed 4.5
				Corrección Factor 0
				Corrected 4.5
				IR ID # C1

☒ EDD format: Equis EDD
☐ E-mail to: ____

Condition upon receipt: Custody Seals: ☒ Present ☒ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Batch Summary

'[none]'

Subcontracted Analyses

SC39794-04 (Soil Pile-Comp)

1716732

Semivolatile Organic Compounds by GC

1716732-BLK1
1716732-BS1
1716732-BSD1
SC39794-04 (Soil Pile-Comp)

1716747

Volatile Organic Compounds

1716747-BLK1
1716747-BS1
1716747-BSD1
SC39794-01 (Soil Pile-1)
SC39794-02 (Soil Pile-2)
SC39794-03 (Soil Pile-3)
SC39794-05 (Trip Blank)

1716760

General Chemistry Parameters

SC39794-01 (Soil Pile-1)
SC39794-02 (Soil Pile-2)
SC39794-03 (Soil Pile-3)
SC39794-04 (Soil Pile-Comp)

1716787

Semivolatile Organic Compounds by GCMS

1716787-BLK1
1716787-BS1
1716787-BSD1
SC39794-04 (Soil Pile-Comp)

1716799

General Chemistry Parameters

SC39794-04 (Soil Pile-Comp)

1717061

Total Metals by EPA 6000/7000 Series Methods

1717061-BLK1
1717061-DUP1
1717061-MS1
1717061-MSD1
1717061-PS1
1717061-SRM1
1717061-SRM2
SC39794-04 (Soil Pile-Comp)

1717062

Total Metals by EPA 6000/7000 Series Methods

1717062-BLK1
1717062-DUP1
1717062-MS1
1717062-MSD1
1717062-PS1
1717062-SRM1
SC39794-04 (Soil Pile-Comp)

1717245

Total Metals by EPA 6000/7000 Series Methods

1717245-BLK1
1717245-DUP1
1717245-MS1
1717245-MSD1
1717245-PS1
1717245-SRM1
1717245-SRM2
SC39794-04 (Soil Pile-Comp)

1717246

Total Metals by EPA 6000/7000 Series Methods

1717246-BLK1
1717246-DUP1
1717246-MS1
1717246-MSD1
1717246-PS1
1717246-SRM1
1717246-SRM2
SC39794-04 (Soil Pile-Comp)

1717358

Total Metals by EPA 6000/7000 Series Methods

1717358-BLK1
1717358-DUP1
1717358-MS1
1717358-MSD1
1717358-PS1
1717358-SRM1
1717358-SRM2
SC39794-04 (Soil Pile-Comp)

403997A

Subcontracted Analyses

BZ13899-BLK
BZ13899-LCS
BZ13899-LCSD
BZ13899-MS
BZ13899-MSD
SC39794-04 (Soil Pile-Comp)

404154A

Subcontracted Analyses

BZ15281-BLK
BZ15281-LCS
BZ15281-LCSD
BZ15281-MS
BZ15281-MSD
SC39794-04 (Soil Pile-Comp)

S705626

Semivolatile Organic Compounds by GC

S705626-CAL1
S705626-CAL2
S705626-CAL3
S705626-CAL4
S705626-CAL5
S705626-CAL6
S705626-CAL7
S705626-CAL8
S705626-CAL9
S705626-CALA
S705626-CALB
S705626-CALC
S705626-CALD
S705626-CALE
S705626-CALF
S705626-CALG
S705626-CALH
S705626-CALI
S705626-CALJ
S705626-CALK
S705626-CALL
S705626-CALM
S705626-CALN
S705626-CALO
S705626-CALP
S705626-CALQ
S705626-CALR
S705626-CALS
S705626-CALT
S705626-CALU
S705626-ICV1
S705626-ICV2
S705626-ICV3
S705626-ICV4
S705626-ICV5
S705626-ICV6
S705626-LCV1
S705626-LCV2
S705626-LCV3
S705626-LCV4
S705626-LCV5
S705626-LCV6

S708282

Semivolatile Organic Compounds by GCMS

S708282-CAL1
S708282-CAL2
S708282-CAL3
S708282-CAL4
S708282-CAL5
S708282-CAL6
S708282-CAL7
S708282-CAL8
S708282-CAL9
S708282-CALA
S708282-ICV1
S708282-LCV1
S708282-LCV2
S708282-TUN1

S708677

Volatile Organic Compounds

S708677-CCV1
S708677-TUN1

S708708

Volatile Organic Compounds

S708708-CAL1
S708708-CAL2
S708708-CAL3
S708708-CAL4
S708708-CAL5
S708708-CAL6
S708708-CAL7
S708708-CAL8
S708708-CAL9
S708708-ICV1
S708708-LCV1
S708708-TUN1

S708723

Semivolatile Organic Compounds by GC

S708723-CCV1
S708723-CCV2
S708723-IBL1
S708723-IBL2

S708746

Semivolatile Organic Compounds by GCMS

S708746-CCV1
S708746-TUN1

S708768

Semivolatile Organic Compounds by GC

S708768-CCV1
S708768-CCV2
S708768-IBL1
S708768-IBL2

S708829

Semivolatile Organic Compounds by GCMS

S708829-CCV1
S708829-TUN1

S708861

Semivolatile Organic Compounds by GCMS

S708861-CCV1
S708861-TUN1

TEST RESLTS AND CHAIN OF CUSTODY DOCUMENTATION FOR IMPORT SOIL

July 17, 2019 Service Request No:R1905686

Mr. Jeff Danzinger
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606

Laboratory Results for: 4581 Lower Birch Run Rd

Dear Mr.Danzinger,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2019
For your reference, these analyses have been assigned our service request number **R1905686.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: Day Environmental, Inc.
Project: 4581 Lower Birch Run Rd
Sample Matrix: Soil

Service Request: R1905686
Date Received: 06/19/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Eighteen soil samples were received for analysis at ALS Environmental on 06/19/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 07/15/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
Method 8270D, 07/09/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.
Method 8270D, 07/12/2019: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. Precision is also outside limits. There were no detections of the analyte(s) in the associated field samples. The discrepancy associated with reduced recovery equates to a potential low bias. Additional analysis of the associated field samples will be performed outside holding time. The analytes affected are flagged in the LCS Summary.

Semivoa GC:

Method 8081B, 07/02/2019: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 07/02/2019: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. However, the Duplicate Laboratory Control Standard (DLCS) passed all limits by a large margin, indicating a problem with the LCS extraction. There were no detections of the analyte(s) in the associated field samples and all surrogates passed control limits. The analytes affected are flagged in the LCS Summary.

Method 8082A, 06/28/2019: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV) on the confirmation column. Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Metals:

Method 6010C, R1905686-014: The Relative Percent Difference (RPD) for the serial dilution test of one or more analytes was above the method control limits which indicates the presence of physical or chemical interference for analysis of these analytes in this sample matrix. Exceedances have been flagged.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 07/17/2019

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Day Environmental, Inc. **Service Request:**R1905686

Project: 4581 Lower Birch Run Rd/4884S-13

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1905686-001	Area 1-1	6/19/2019	0935
R1905686-002	Area 1-2	6/19/2019	0935
R1905686-003	Area 1-3	6/19/2019	0935
R1905686-004	Area 2-1	6/19/2019	1005
R1905686-005	Area 2-2	6/19/2019	1005
R1905686-006	Area 3-1	6/19/2019	1025
R1905686-007	Area 3-2	6/19/2019	1025
R1905686-008	Area 3-3	6/19/2019	1025
R1905686-009	Area 4-1	6/19/2019	1045
R1905686-010	Area 4-2	6/19/2019	1045
R1905686-011	Area 5-1	6/19/2019	1105
R1905686-012	Area 5-2	6/19/2019	1105
R1905686-013	Area 5-3	6/19/2019	1105
R1905686-014	Area 1	6/19/2019	0935
R1905686-015	Area 2	6/19/2019	1005
R1905686-016	Area 3	6/19/2019	1025
R1905686-017	Area 4	6/19/2019	1045
R1905686-018	Area 5	6/19/2019	1105

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 57579

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Project Name: 4581 Lower Birch Run Rd	Project Number: 48845-13
Project Manager: C. Hampton	Report CC:
Company/Address: Day Environmental, Inc 1563 Lyell Avenue Rochester, New York 14606	
Phone #: 585 454 0210	Email: champton@dayenvl.net
Sampler's Signature:	Sampler's Printed Name: Charles Hampton

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs ◦ 8260 ◦ 624 ◦ CLP TICs	GCMS SVOAs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
Area 1-1		6/19/19	09:35	Soil	4	X						
Area 1-2			09:35			X						
Area 1-3			09:35			X						
Area 2-1			10:05			X						
Area 2-2			10:05			X						
Area 3-1			10:25			X						
Area 3-2			10:25			X						
Area 3-3			10:25			X						
Area 4-1			10:45			X						
Area 4-2			10:46			X						
Area 5-1			11:05			X						

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Multiple metals 3005

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
X Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
ASP CAT B
NYSDEC EQuIS
Edata Y Yes ____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Hanna Miller	Printed Name: David Hall	Printed Name	Printed Name	Printed Name	
Firm: Day Environmental	Firm: ALS	Firm	Firm	Firm	
Date/Time: 6-19-19 / 1:45	Date/Time: 6/19/19 / 1345	Date/Time	Date/Time	Date/Time	

R1905686 5
Day Environmental, Inc.
4581 Lower Birch Run Rd

Distribution: White - Lab Copy; Yellow - Return to Originator

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 57580

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Project Name: 4581 Lower Birch Run Rd	Project Number: 4884 S-13
Project Manager: C. Hampton	Report CC:
Company/Address: 1563 Lyell Avenue, Rochester New York 14606	
Phone #: 585 454 0210	Email: champton@dayenvironmental.com
Sampler's Signature:	Sampler's Printed Name: Charles Hampton

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 8 0 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs + TICs • 8260 • 624 • CLP	GC/MS SVOAs + TICs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	PFAS							
Area 5-2		6/19/19	11:05	Soil	4	X														
Area 5-3			11:05		4	X														
AREA 1			09:35		3		+		X	X	X		X							
AREA 2			10:05		3		X		X	X	X		X							
AREA 3			10:25		3		X		X	X	X		X							
AREA 4			10:45		3		X		X	X	X		X							
AREA 5			11:05		3		X		X	Y	X		X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Multiple Method 5035

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals
4 TAL Metals List

→ PFAS Samples packed in seperate cooler

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
X Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
ASP CAT B
NYSDEC EQUIS
Edata X Yes ____ No

INVOICE INFORMATION
SAME
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Hanna Miller	Printed Name: Daniel Hill	Printed Name	Printed Name	Printed Name	
Firm: Day Environmental	Firm: ALS	Firm	Firm	Firm	
Date/Time: 6-19-19 / 1:45	Date/Time: 6/19/19/1345	Date/Time	Date/Time	Date/Time	

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4581 Lower Birch Run Rd

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4581 Lower Birch Run Rd

Cooler Receipt and Preservation Check Form

Project/Client Day Env. Folder Number _____.

Cooler received on 6/19/19 by: DM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y N (NA)
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set (NA) DM 6/19/19

8. Temperature Readings Date: 6/19/19 Time: 1400 ID: IR#7 (IR#10) From: Temp Blank Sample Bottle

Observed Temp (°C)	1.6	3.9	2.6				
Correction Factor (°C)	±0.0	±0.0	±0.0				
Corrected Temp (°C)	1.6	3.9	2.6				
Temp from: Type of bottle							
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by DM on 6/19/19 at 1400
5035 samples placed in storage location: R-F09 by ↓ on ↓ at ↓

Cooler Breakdown/Preservation Check**: Date: 6/20/19 Time: 1213 by: [illegible]

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? (YES) NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 040819-1SR, 121018-1TW
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	(SUB)
SO3	MARRS
ALS	REV

Labels secondary reviewed by: (DM)
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
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REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
ALS SOP	Soil	Total Solids

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Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 1-1	**Date Collected:**	06/19/19
Lab Code:	R1905686-001	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 1-2	**Date Collected:**	06/19/19
Lab Code:	R1905686-002	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 1-3	**Date Collected:**	06/19/19
Lab Code:	R1905686-003	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 2-1	**Date Collected:**	06/19/19
Lab Code:	R1905686-004	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 2-2	**Date Collected:**	06/19/19
Lab Code:	R1905686-005	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 3-1	**Date Collected:**	06/19/19
Lab Code:	R1905686-006	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 3-2	**Date Collected:**	06/19/19
Lab Code:	R1905686-007	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 3-3	**Date Collected:**	06/19/19
Lab Code:	R1905686-008	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 4-1	**Date Collected:**	06/19/19
Lab Code:	R1905686-009	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 4-2	**Date Collected:**	06/19/19
Lab Code:	R1905686-010	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 5-1	**Date Collected:**	06/19/19
Lab Code:	R1905686-011	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name:	Area 5-2	**Date Collected:**	06/19/19
Lab Code:	R1905686-012	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13

Sample Name: Area 5-3 **Date Collected:** 06/19/19
Lab Code: R1905686-013 **Date Received:** 06/19/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
ALS SOP		KAWONG

Sample Name: Area 1 **Date Collected:** 06/19/19
Lab Code: R1905686-014 **Date Received:** 06/19/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7471B	KMCLAEN	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name: Area 1 **Date Collected:** 06/19/19
Lab Code: R1905686-014.R01 **Date Received:** 06/19/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name: Area 2 **Date Collected:** 06/19/19
Lab Code: R1905686-015 **Date Received:** 06/19/19
Sample Matrix: Soil

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7471B	KMCLAEN	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES

ALS Group USA, Corp.
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Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 2	**Date Collected:**	06/19/19
Lab Code:	R1905686-015	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	Area 2	**Date Collected:**	06/19/19
Lab Code:	R1905686-015.R01	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	Area 3	**Date Collected:**	06/19/19
Lab Code:	R1905686-016	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7471B	KMCLAEN	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	Area 3	**Date Collected:**	06/19/19
Lab Code:	R1905686-016.R01	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

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Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 4	**Date Collected:**	06/19/19
Lab Code:	R1905686-017	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7471B	KMCLAEN	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

Sample Name:	Area 4	**Date Collected:**	06/19/19
Lab Code:	R1905686-017.R01	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

Sample Name:	Area 5	**Date Collected:**	06/19/19
Lab Code:	R1905686-018	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7471B	KMCLAEN	KMCLAEN
8081B	KSERCU	AMOSES
8082A	KSERCU	AMOSES
8270D	KSERCU	JMISIUREWICZ
ALS SOP		KAWONG

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Analyst Summary report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13		

Sample Name:	Area 5	**Date Collected:**	06/19/19
Lab Code:	R1905686-018.R01	**Date Received:**	06/19/19
Sample Matrix:	Soil		

Analysis Method	Extracted/Digested By	Analyzed By
8270D	KSERCU	JMISIUREWICZ

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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ALS Group USA, Corp.
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-1	**Units:**	ug/Kg
Lab Code:	R1905686-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,1,2,2-Tetrachloroethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,1,2-Trichloroethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,1-Dichloroethane (1,1-DCA)	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,1-Dichloroethene (1,1-DCE)	0.27 U	4.6	0.27	.81	06/21/19 17:16	
1,2,3-Trichlorobenzene	0.49 U	4.6	0.49	.81	06/21/19 17:16	
1,2,4-Trichlorobenzene	0.39 U	4.6	0.39	.81	06/21/19 17:16	
1,2,4-Trimethylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,2-Dibromo-3-chloropropane (DBCP)	0.27 U	4.6	0.27	.81	06/21/19 17:16	
1,2-Dibromoethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,2-Dichlorobenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,2-Dichloroethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,2-Dichloropropane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,3,5-Trimethylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,3-Dichlorobenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
1,4-Dichlorobenzene	0.21 U	4.6	0.21	.81	06/21/19 17:16	
1,4-Dioxane	19 U	92	19	.81	06/21/19 17:16	
2-Butanone (MEK)	1.9 U	4.6	1.9	.81	06/21/19 17:16	
2-Hexanone	0.34 U	4.6	0.34	.81	06/21/19 17:16	
4-Isopropyltoluene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
4-Methyl-2-pentanone	0.22 U	4.6	0.22	.81	06/21/19 17:16	
Acetone	4.4 U	4.6	4.4	.81	06/21/19 17:16	
Benzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Bromochloromethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Bromodichloromethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Bromoform	0.47 U	4.6	0.47	.81	06/21/19 17:16	
Bromomethane	2.0 U	4.6	2.0	.81	06/21/19 17:16	
Carbon Disulfide	0.27 U	4.6	0.27	.81	06/21/19 17:16	
Carbon Tetrachloride	0.25 U	4.6	0.25	.81	06/21/19 17:16	
Chlorobenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Chloroethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Chloroform	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Chloromethane	1.3 U	4.6	1.3	.81	06/21/19 17:16	
Cyclohexane	0.25 U	4.6	0.25	.81	06/21/19 17:16	
Dibromochloromethane	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Dichlorodifluoromethane (CFC 12)	0.31 U	4.6	0.31	.81	06/21/19 17:16	
Dichloromethane	2.6 U	4.6	2.6	.81	06/21/19 17:16	
Ethylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Isopropylbenzene (Cumene)	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Methyl Acetate	0.78 U	4.6	0.78	.81	06/21/19 17:16	
Methyl tert-Butyl Ether	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Methylcyclohexane	0.29 U	4.6	0.29	.81	06/21/19 17:16	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-1	**Units:**	ug/Kg
Lab Code:	R1905686-001	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.51 U	4.6	0.51	.81	06/21/19 17:16	
Styrene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
Tetrachloroethene (PCE)	0.22 U	4.6	0.22	.81	06/21/19 17:16	
Toluene	**0.63 J**	4.6	0.19	.81	06/21/19 17:16	
Trichloroethene (TCE)	0.21 U	4.6	0.21	.81	06/21/19 17:16	
Trichlorofluoromethane (CFC 11)	0.25 U	4.6	0.25	.81	06/21/19 17:16	
Vinyl Chloride	0.43 U	4.6	0.43	.81	06/21/19 17:16	
cis-1,2-Dichloroethene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
cis-1,3-Dichloropropene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
m,p-Xylenes	0.35 U	9.2	0.35	.81	06/21/19 17:16	
n-Butylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
n-Propylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
o-Xylene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
sec-Butylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
tert-Butylbenzene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
trans-1,2-Dichloroethene	0.19 U	4.6	0.19	.81	06/21/19 17:16	
trans-1,3-Dichloropropene	0.19 U	4.6	0.19	.81	06/21/19 17:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	06/21/19 17:16	
Dibromofluoromethane	98	63 - 138	06/21/19 17:16	
Toluene-d8	98	66 - 138	06/21/19 17:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-2	**Units:**	ug/Kg
Lab Code:	R1905686-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,1,2,2-Tetrachloroethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,1,2-Trichloroethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,1-Dichloroethane (1,1-DCA)	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,1-Dichloroethene (1,1-DCE)	0.25 U	4.1	0.25	.74	06/21/19 17:44	
1,2,3-Trichlorobenzene	0.44 U	4.1	0.44	.74	06/21/19 17:44	
1,2,4-Trichlorobenzene	0.35 U	4.1	0.35	.74	06/21/19 17:44	
1,2,4-Trimethylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,2-Dibromo-3-chloropropane (DBCP)	0.25 U	4.1	0.25	.74	06/21/19 17:44	
1,2-Dibromoethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,2-Dichlorobenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,2-Dichloroethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,2-Dichloropropane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,3,5-Trimethylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,3-Dichlorobenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
1,4-Dichlorobenzene	0.19 U	4.1	0.19	.74	06/21/19 17:44	
1,4-Dioxane	17 U	83	17	.74	06/21/19 17:44	
2-Butanone (MEK)	1.7 U	4.1	1.7	.74	06/21/19 17:44	
2-Hexanone	0.30 U	4.1	0.30	.74	06/21/19 17:44	
4-Isopropyltoluene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
4-Methyl-2-pentanone	0.20 U	4.1	0.20	.74	06/21/19 17:44	
Acetone	**6.0**	4.1	3.9	.74	06/21/19 17:44	
Benzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Bromochloromethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Bromodichloromethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Bromoform	0.42 U	4.1	0.42	.74	06/21/19 17:44	
Bromomethane	1.8 U	4.1	1.8	.74	06/21/19 17:44	
Carbon Disulfide	0.25 U	4.1	0.25	.74	06/21/19 17:44	
Carbon Tetrachloride	0.22 U	4.1	0.22	.74	06/21/19 17:44	
Chlorobenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Chloroethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Chloroform	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Chloromethane	1.2 U	4.1	1.2	.74	06/21/19 17:44	
Cyclohexane	0.22 U	4.1	0.22	.74	06/21/19 17:44	
Dibromochloromethane	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Dichlorodifluoromethane (CFC 12)	0.28 U	4.1	0.28	.74	06/21/19 17:44	
Dichloromethane	2.4 U	4.1	2.4	.74	06/21/19 17:44	
Ethylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Isopropylbenzene (Cumene)	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Methyl Acetate	**1.8 J**	4.1	0.70	.74	06/21/19 17:44	
Methyl tert-Butyl Ether	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Methylcyclohexane	0.26 U	4.1	0.26	.74	06/21/19 17:44	

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Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-2	**Units:**	ug/Kg
Lab Code:	R1905686-002	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.46 U	4.1	0.46	.74	06/21/19 17:44	
Styrene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
Tetrachloroethene (PCE)	0.20 U	4.1	0.20	.74	06/21/19 17:44	
Toluene	**0.20 J**	4.1	0.17	.74	06/21/19 17:44	
Trichloroethene (TCE)	0.19 U	4.1	0.19	.74	06/21/19 17:44	
Trichlorofluoromethane (CFC 11)	0.22 U	4.1	0.22	.74	06/21/19 17:44	
Vinyl Chloride	0.39 U	4.1	0.39	.74	06/21/19 17:44	
cis-1,2-Dichloroethene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
cis-1,3-Dichloropropene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
m,p-Xylenes	0.31 U	8.3	0.31	.74	06/21/19 17:44	
n-Butylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
n-Propylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
o-Xylene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
sec-Butylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
tert-Butylbenzene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
trans-1,2-Dichloroethene	0.17 U	4.1	0.17	.74	06/21/19 17:44	
trans-1,3-Dichloropropene	0.17 U	4.1	0.17	.74	06/21/19 17:44	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	31 - 154	06/21/19 17:44	
Dibromofluoromethane	94	63 - 138	06/21/19 17:44	
Toluene-d8	98	66 - 138	06/21/19 17:44	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-3	**Units:**	ug/Kg
Lab Code:	R1905686-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,1,2,2-Tetrachloroethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,1,2-Trichloroethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,1-Dichloroethane (1,1-DCA)	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,1-Dichloroethene (1,1-DCE)	0.26 U	4.4	0.26	.77	06/21/19 18:07	
1,2,3-Trichlorobenzene	0.47 U	4.4	0.47	.77	06/21/19 18:07	
1,2,4-Trichlorobenzene	0.38 U	4.4	0.38	.77	06/21/19 18:07	
1,2,4-Trimethylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,2-Dibromo-3-chloropropane (DBCP)	0.26 U	4.4	0.26	.77	06/21/19 18:07	
1,2-Dibromoethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,2-Dichlorobenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,2-Dichloroethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,2-Dichloropropane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,3,5-Trimethylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,3-Dichlorobenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
1,4-Dichlorobenzene	0.20 U	4.4	0.20	.77	06/21/19 18:07	
1,4-Dioxane	18 U	89	18	.77	06/21/19 18:07	
2-Butanone (MEK)	1.8 U	4.4	1.8	.77	06/21/19 18:07	
2-Hexanone	0.32 U	4.4	0.32	.77	06/21/19 18:07	
4-Isopropyltoluene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
4-Methyl-2-pentanone	0.21 U	4.4	0.21	.77	06/21/19 18:07	
Acetone	4.2 U	4.4	4.2	.77	06/21/19 18:07	
Benzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Bromochloromethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Bromodichloromethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Bromoform	0.45 U	4.4	0.45	.77	06/21/19 18:07	
Bromomethane	1.9 U	4.4	1.9	.77	06/21/19 18:07	
Carbon Disulfide	0.26 U	4.4	0.26	.77	06/21/19 18:07	
Carbon Tetrachloride	0.24 U	4.4	0.24	.77	06/21/19 18:07	
Chlorobenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Chloroethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Chloroform	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Chloromethane	1.3 U	4.4	1.3	.77	06/21/19 18:07	
Cyclohexane	0.24 U	4.4	0.24	.77	06/21/19 18:07	
Dibromochloromethane	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Dichlorodifluoromethane (CFC 12)	0.30 U	4.4	0.30	.77	06/21/19 18:07	
Dichloromethane	2.5 U	4.4	2.5	.77	06/21/19 18:07	
Ethylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Isopropylbenzene (Cumene)	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Methyl Acetate	0.75 U	4.4	0.75	.77	06/21/19 18:07	
Methyl tert-Butyl Ether	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Methylcyclohexane	0.28 U	4.4	0.28	.77	06/21/19 18:07	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-3	**Units:**	ug/Kg
Lab Code:	R1905686-003	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.49 U	4.4	0.49	.77	06/21/19 18:07	
Styrene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
Tetrachloroethene (PCE)	0.21 U	4.4	0.21	.77	06/21/19 18:07	
Toluene	**0.21 J**	4.4	0.18	.77	06/21/19 18:07	
Trichloroethene (TCE)	0.20 U	4.4	0.20	.77	06/21/19 18:07	
Trichlorofluoromethane (CFC 11)	0.24 U	4.4	0.24	.77	06/21/19 18:07	
Vinyl Chloride	0.41 U	4.4	0.41	.77	06/21/19 18:07	
cis-1,2-Dichloroethene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
cis-1,3-Dichloropropene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
m,p-Xylenes	0.33 U	8.9	0.33	.77	06/21/19 18:07	
n-Butylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
n-Propylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
o-Xylene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
sec-Butylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
tert-Butylbenzene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
trans-1,2-Dichloroethene	0.18 U	4.4	0.18	.77	06/21/19 18:07	
trans-1,3-Dichloropropene	0.18 U	4.4	0.18	.77	06/21/19 18:07	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	06/21/19 18:07	
Dibromofluoromethane	96	63 - 138	06/21/19 18:07	
Toluene-d8	98	66 - 138	06/21/19 18:07	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-1	**Units:**	ug/Kg
Lab Code:	R1905686-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,1,2,2-Tetrachloroethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,1,2-Trichloroethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,1-Dichloroethane (1,1-DCA)	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,1-Dichloroethene (1,1-DCE)	0.45 U	7.6	0.45	1.36	06/21/19 18:30	
1,2,3-Trichlorobenzene	0.79 U	7.6	0.79	1.36	06/21/19 18:30	
1,2,4-Trichlorobenzene	0.64 U	7.6	0.64	1.36	06/21/19 18:30	
1,2,4-Trimethylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	7.6	0.45	1.36	06/21/19 18:30	
1,2-Dibromoethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,2-Dichlorobenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,2-Dichloroethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,2-Dichloropropane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,3,5-Trimethylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,3-Dichlorobenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
1,4-Dichlorobenzene	0.34 U	7.6	0.34	1.36	06/21/19 18:30	
1,4-Dioxane	31 U	150	31	1.36	06/21/19 18:30	
2-Butanone (MEK)	3.1 U	7.6	3.1	1.36	06/21/19 18:30	
2-Hexanone	0.55 U	7.6	0.55	1.36	06/21/19 18:30	
4-Isopropyltoluene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
4-Methyl-2-pentanone	0.35 U	7.6	0.35	1.36	06/21/19 18:30	
Acetone	**15**	7.6	7.2	1.36	06/21/19 18:30	
Benzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Bromochloromethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Bromodichloromethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Bromoform	0.76 U	7.6	0.76	1.36	06/21/19 18:30	
Bromomethane	3.2 U	7.6	3.2	1.36	06/21/19 18:30	
Carbon Disulfide	0.45 U	7.6	0.45	1.36	06/21/19 18:30	
Carbon Tetrachloride	0.40 U	7.6	0.40	1.36	06/21/19 18:30	
Chlorobenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Chloroethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Chloroform	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Chloromethane	2.2 U	7.6	2.2	1.36	06/21/19 18:30	
Cyclohexane	0.40 U	7.6	0.40	1.36	06/21/19 18:30	
Dibromochloromethane	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Dichlorodifluoromethane (CFC 12)	0.51 U	7.6	0.51	1.36	06/21/19 18:30	
Dichloromethane	4.3 U	7.6	4.3	1.36	06/21/19 18:30	
Ethylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Isopropylbenzene (Cumene)	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Methyl Acetate	1.3 U	7.6	1.3	1.36	06/21/19 18:30	
Methyl tert-Butyl Ether	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Methylcyclohexane	0.48 U	7.6	0.48	1.36	06/21/19 18:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-1	**Units:**	ug/Kg
Lab Code:	R1905686-004	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.84 U	7.6	0.84	1.36	06/21/19 18:30	
Styrene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
Tetrachloroethene (PCE)	0.35 U	7.6	0.35	1.36	06/21/19 18:30	
Toluene	**0.52 J**	7.6	0.31	1.36	06/21/19 18:30	
Trichloroethene (TCE)	0.34 U	7.6	0.34	1.36	06/21/19 18:30	
Trichlorofluoromethane (CFC 11)	0.40 U	7.6	0.40	1.36	06/21/19 18:30	
Vinyl Chloride	0.70 U	7.6	0.70	1.36	06/21/19 18:30	
cis-1,2-Dichloroethene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
cis-1,3-Dichloropropene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
m,p-Xylenes	0.57 U	15	0.57	1.36	06/21/19 18:30	
n-Butylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
n-Propylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
o-Xylene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
sec-Butylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
tert-Butylbenzene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
trans-1,2-Dichloroethene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	
trans-1,3-Dichloropropene	0.31 U	7.6	0.31	1.36	06/21/19 18:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	06/21/19 18:30	
Dibromofluoromethane	96	63 - 138	06/21/19 18:30	
Toluene-d8	97	66 - 138	06/21/19 18:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-2	**Units:**	ug/Kg
Lab Code:	R1905686-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,1,2,2-Tetrachloroethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,1,2-Trichloroethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,1-Dichloroethane (1,1-DCA)	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,1-Dichloroethene (1,1-DCE)	0.24 U	4.0	0.24	.71	06/21/19 18:54	
1,2,3-Trichlorobenzene	0.42 U	4.0	0.42	.71	06/21/19 18:54	
1,2,4-Trichlorobenzene	0.34 U	4.0	0.34	.71	06/21/19 18:54	
1,2,4-Trimethylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,2-Dibromo-3-chloropropane (DBCP)	0.24 U	4.0	0.24	.71	06/21/19 18:54	
1,2-Dibromoethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,2-Dichlorobenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,2-Dichloroethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,2-Dichloropropane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,3,5-Trimethylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,3-Dichlorobenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
1,4-Dichlorobenzene	0.18 U	4.0	0.18	.71	06/21/19 18:54	
1,4-Dioxane	16 U	79	16	.71	06/21/19 18:54	
2-Butanone (MEK)	1.6 U	4.0	1.6	.71	06/21/19 18:54	
2-Hexanone	0.29 U	4.0	0.29	.71	06/21/19 18:54	
4-Isopropyltoluene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
4-Methyl-2-pentanone	0.19 U	4.0	0.19	.71	06/21/19 18:54	
Acetone	**19**	4.0	3.8	.71	06/21/19 18:54	
Benzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Bromochloromethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Bromodichloromethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Bromoform	0.40 U	4.0	0.40	.71	06/21/19 18:54	
Bromomethane	1.7 U	4.0	1.7	.71	06/21/19 18:54	
Carbon Disulfide	0.24 U	4.0	0.24	.71	06/21/19 18:54	
Carbon Tetrachloride	0.21 U	4.0	0.21	.71	06/21/19 18:54	
Chlorobenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Chloroethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Chloroform	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Chloromethane	1.2 U	4.0	1.2	.71	06/21/19 18:54	
Cyclohexane	0.21 U	4.0	0.21	.71	06/21/19 18:54	
Dibromochloromethane	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Dichlorodifluoromethane (CFC 12)	0.27 U	4.0	0.27	.71	06/21/19 18:54	
Dichloromethane	2.3 U	4.0	2.3	.71	06/21/19 18:54	
Ethylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Isopropylbenzene (Cumene)	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Methyl Acetate	0.67 U	4.0	0.67	.71	06/21/19 18:54	
Methyl tert-Butyl Ether	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Methylcyclohexane	0.25 U	4.0	0.25	.71	06/21/19 18:54	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-2	**Units:**	ug/Kg
Lab Code:	R1905686-005	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.44 U	4.0	0.44	.71	06/21/19 18:54	
Styrene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
Tetrachloroethene (PCE)	0.19 U	4.0	0.19	.71	06/21/19 18:54	
Toluene	**0.20 J**	4.0	0.16	.71	06/21/19 18:54	
Trichloroethene (TCE)	0.18 U	4.0	0.18	.71	06/21/19 18:54	
Trichlorofluoromethane (CFC 11)	0.21 U	4.0	0.21	.71	06/21/19 18:54	
Vinyl Chloride	0.37 U	4.0	0.37	.71	06/21/19 18:54	
cis-1,2-Dichloroethene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
cis-1,3-Dichloropropene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
m,p-Xylenes	0.30 U	7.9	0.30	.71	06/21/19 18:54	
n-Butylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
n-Propylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
o-Xylene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
sec-Butylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
tert-Butylbenzene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
trans-1,2-Dichloroethene	0.16 U	4.0	0.16	.71	06/21/19 18:54	
trans-1,3-Dichloropropene	0.16 U	4.0	0.16	.71	06/21/19 18:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	06/21/19 18:54	
Dibromofluoromethane	96	63 - 138	06/21/19 18:54	
Toluene-d8	99	66 - 138	06/21/19 18:54	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-1	**Units:**	ug/Kg
Lab Code:	R1905686-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,1,2,2-Tetrachloroethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,1,2-Trichloroethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,1-Dichloroethane (1,1-DCA)	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,1-Dichloroethene (1,1-DCE)	0.30 U	5.1	0.30	.79	06/21/19 19:17	
1,2,3-Trichlorobenzene	0.53 U	5.1	0.53	.79	06/21/19 19:17	
1,2,4-Trichlorobenzene	0.43 U	5.1	0.43	.79	06/21/19 19:17	
1,2,4-Trimethylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,2-Dibromo-3-chloropropane (DBCP)	0.30 U	5.1	0.30	.79	06/21/19 19:17	
1,2-Dibromoethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,2-Dichlorobenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,2-Dichloroethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,2-Dichloropropane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,3,5-Trimethylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,3-Dichlorobenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
1,4-Dichlorobenzene	0.23 U	5.1	0.23	.79	06/21/19 19:17	
1,4-Dioxane	21 U	100	21	.79	06/21/19 19:17	
2-Butanone (MEK)	2.1 U	5.1	2.1	.79	06/21/19 19:17	
2-Hexanone	0.37 U	5.1	0.37	.79	06/21/19 19:17	
4-Isopropyltoluene	**8.1**	5.1	0.21	.79	06/21/19 19:17	
4-Methyl-2-pentanone	0.24 U	5.1	0.24	.79	06/21/19 19:17	
Acetone	**12**	5.1	4.8	.79	06/21/19 19:17	
Benzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Bromochloromethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Bromodichloromethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Bromoform	0.51 U	5.1	0.51	.79	06/21/19 19:17	
Bromomethane	2.2 U	5.1	2.2	.79	06/21/19 19:17	
Carbon Disulfide	0.30 U	5.1	0.30	.79	06/21/19 19:17	
Carbon Tetrachloride	0.27 U	5.1	0.27	.79	06/21/19 19:17	
Chlorobenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Chloroethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Chloroform	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Chloromethane	1.5 U	5.1	1.5	.79	06/21/19 19:17	
Cyclohexane	0.27 U	5.1	0.27	.79	06/21/19 19:17	
Dibromochloromethane	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Dichlorodifluoromethane (CFC 12)	0.34 U	5.1	0.34	.79	06/21/19 19:17	
Dichloromethane	2.9 U	5.1	2.9	.79	06/21/19 19:17	
Ethylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Isopropylbenzene (Cumene)	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Methyl Acetate	0.86 U	5.1	0.86	.79	06/21/19 19:17	
Methyl tert-Butyl Ether	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Methylcyclohexane	0.32 U	5.1	0.32	.79	06/21/19 19:17	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-1	**Units:**	ug/Kg
Lab Code:	R1905686-006	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.56 U	5.1	0.56	.79	06/21/19 19:17	
Styrene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
Tetrachloroethene (PCE)	0.24 U	5.1	0.24	.79	06/21/19 19:17	
Toluene	**0.30 J**	5.1	0.21	.79	06/21/19 19:17	
Trichloroethene (TCE)	0.23 U	5.1	0.23	.79	06/21/19 19:17	
Trichlorofluoromethane (CFC 11)	0.27 U	5.1	0.27	.79	06/21/19 19:17	
Vinyl Chloride	0.47 U	5.1	0.47	.79	06/21/19 19:17	
cis-1,2-Dichloroethene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
cis-1,3-Dichloropropene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
m,p-Xylenes	0.38 U	10	0.38	.79	06/21/19 19:17	
n-Butylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
n-Propylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
o-Xylene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
sec-Butylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
tert-Butylbenzene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
trans-1,2-Dichloroethene	0.21 U	5.1	0.21	.79	06/21/19 19:17	
trans-1,3-Dichloropropene	0.21 U	5.1	0.21	.79	06/21/19 19:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	31 - 154	06/21/19 19:17	
Dibromofluoromethane	99	63 - 138	06/21/19 19:17	
Toluene-d8	97	66 - 138	06/21/19 19:17	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-2	**Units:**	ug/Kg
Lab Code:	R1905686-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,1,2,2-Tetrachloroethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,1,2-Trichloroethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,1-Dichloroethane (1,1-DCA)	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,1-Dichloroethene (1,1-DCE)	0.28 U	4.7	0.28	.75	06/21/19 19:40	
1,2,3-Trichlorobenzene	0.49 U	4.7	0.49	.75	06/21/19 19:40	
1,2,4-Trichlorobenzene	0.40 U	4.7	0.40	.75	06/21/19 19:40	
1,2,4-Trimethylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,2-Dibromo-3-chloropropane (DBCP)	0.28 U	4.7	0.28	.75	06/21/19 19:40	
1,2-Dibromoethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,2-Dichlorobenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,2-Dichloroethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,2-Dichloropropane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,3,5-Trimethylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,3-Dichlorobenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
1,4-Dichlorobenzene	0.21 U	4.7	0.21	.75	06/21/19 19:40	
1,4-Dioxane	19 U	94	19	.75	06/21/19 19:40	
2-Butanone (MEK)	1.9 U	4.7	1.9	.75	06/21/19 19:40	
2-Hexanone	0.34 U	4.7	0.34	.75	06/21/19 19:40	
4-Isopropyltoluene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
4-Methyl-2-pentanone	0.22 U	4.7	0.22	.75	06/21/19 19:40	
Acetone	**12**	4.7	4.5	.75	06/21/19 19:40	
Benzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Bromochloromethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Bromodichloromethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Bromoform	0.47 U	4.7	0.47	.75	06/21/19 19:40	
Bromomethane	2.0 U	4.7	2.0	.75	06/21/19 19:40	
Carbon Disulfide	0.28 U	4.7	0.28	.75	06/21/19 19:40	
Carbon Tetrachloride	0.25 U	4.7	0.25	.75	06/21/19 19:40	
Chlorobenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Chloroethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Chloroform	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Chloromethane	1.4 U	4.7	1.4	.75	06/21/19 19:40	
Cyclohexane	0.25 U	4.7	0.25	.75	06/21/19 19:40	
Dibromochloromethane	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Dichlorodifluoromethane (CFC 12)	0.31 U	4.7	0.31	.75	06/21/19 19:40	
Dichloromethane	2.7 U	4.7	2.7	.75	06/21/19 19:40	
Ethylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Isopropylbenzene (Cumene)	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Methyl Acetate	0.79 U	4.7	0.79	.75	06/21/19 19:40	
Methyl tert-Butyl Ether	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Methylcyclohexane	0.30 U	4.7	0.30	.75	06/21/19 19:40	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-2	**Units:**	ug/Kg
Lab Code:	R1905686-007	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.52 U	4.7	0.52	.75	06/21/19 19:40	
Styrene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
Tetrachloroethene (PCE)	0.22 U	4.7	0.22	.75	06/21/19 19:40	
Toluene	**0.27 J**	4.7	0.19	.75	06/21/19 19:40	
Trichloroethene (TCE)	0.21 U	4.7	0.21	.75	06/21/19 19:40	
Trichlorofluoromethane (CFC 11)	0.25 U	4.7	0.25	.75	06/21/19 19:40	
Vinyl Chloride	0.44 U	4.7	0.44	.75	06/21/19 19:40	
cis-1,2-Dichloroethene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
cis-1,3-Dichloropropene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
m,p-Xylenes	0.35 U	9.4	0.35	.75	06/21/19 19:40	
n-Butylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
n-Propylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
o-Xylene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
sec-Butylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
tert-Butylbenzene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
trans-1,2-Dichloroethene	0.19 U	4.7	0.19	.75	06/21/19 19:40	
trans-1,3-Dichloropropene	0.19 U	4.7	0.19	.75	06/21/19 19:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	84	31 - 154	06/21/19 19:40	
Dibromofluoromethane	97	63 - 138	06/21/19 19:40	
Toluene-d8	98	66 - 138	06/21/19 19:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-3	**Units:**	ug/Kg
Lab Code:	R1905686-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,1,2,2-Tetrachloroethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,1,2-Trichloroethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,1-Dichloroethane (1,1-DCA)	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,1-Dichloroethene (1,1-DCE)	0.24 U	4.1	0.24	.69	06/21/19 20:03	
1,2,3-Trichlorobenzene	0.43 U	4.1	0.43	.69	06/21/19 20:03	
1,2,4-Trichlorobenzene	0.35 U	4.1	0.35	.69	06/21/19 20:03	
1,2,4-Trimethylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,2-Dibromo-3-chloropropane (DBCP)	0.24 U	4.1	0.24	.69	06/21/19 20:03	
1,2-Dibromoethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,2-Dichlorobenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,2-Dichloroethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,2-Dichloropropane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,3,5-Trimethylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,3-Dichlorobenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
1,4-Dichlorobenzene	0.19 U	4.1	0.19	.69	06/21/19 20:03	
1,4-Dioxane	17 U	83	17	.69	06/21/19 20:03	
2-Butanone (MEK)	1.7 U	4.1	1.7	.69	06/21/19 20:03	
2-Hexanone	0.30 U	4.1	0.30	.69	06/21/19 20:03	
4-Isopropyltoluene	**5.4**	4.1	0.17	.69	06/21/19 20:03	
4-Methyl-2-pentanone	0.19 U	4.1	0.19	.69	06/21/19 20:03	
Acetone	**12**	4.1	3.9	.69	06/21/19 20:03	
Benzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Bromochloromethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Bromodichloromethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Bromoform	0.42 U	4.1	0.42	.69	06/21/19 20:03	
Bromomethane	1.8 U	4.1	1.8	.69	06/21/19 20:03	
Carbon Disulfide	0.24 U	4.1	0.24	.69	06/21/19 20:03	
Carbon Tetrachloride	0.22 U	4.1	0.22	.69	06/21/19 20:03	
Chlorobenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Chloroethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Chloroform	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Chloromethane	1.2 U	4.1	1.2	.69	06/21/19 20:03	
Cyclohexane	0.22 U	4.1	0.22	.69	06/21/19 20:03	
Dibromochloromethane	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Dichlorodifluoromethane (CFC 12)	0.28 U	4.1	0.28	.69	06/21/19 20:03	
Dichloromethane	2.4 U	4.1	2.4	.69	06/21/19 20:03	
Ethylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Isopropylbenzene (Cumene)	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Methyl Acetate	**6.5**	4.1	0.70	.69	06/21/19 20:03	
Methyl tert-Butyl Ether	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Methylcyclohexane	0.26 U	4.1	0.26	.69	06/21/19 20:03	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-3	**Units:**	ug/Kg
Lab Code:	R1905686-008	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.46 U	4.1	0.46	.69	06/21/19 20:03	
Styrene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
Tetrachloroethene (PCE)	0.19 U	4.1	0.19	.69	06/21/19 20:03	
Toluene	**0.19 J**	4.1	0.17	.69	06/21/19 20:03	
Trichloroethene (TCE)	0.19 U	4.1	0.19	.69	06/21/19 20:03	
Trichlorofluoromethane (CFC 11)	0.22 U	4.1	0.22	.69	06/21/19 20:03	
Vinyl Chloride	0.38 U	4.1	0.38	.69	06/21/19 20:03	
cis-1,2-Dichloroethene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
cis-1,3-Dichloropropene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
m,p-Xylenes	0.31 U	8.3	0.31	.69	06/21/19 20:03	
n-Butylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
n-Propylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
o-Xylene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
sec-Butylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
tert-Butylbenzene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
trans-1,2-Dichloroethene	0.17 U	4.1	0.17	.69	06/21/19 20:03	
trans-1,3-Dichloropropene	0.17 U	4.1	0.17	.69	06/21/19 20:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	31 - 154	06/21/19 20:03	
Dibromofluoromethane	96	63 - 138	06/21/19 20:03	
Toluene-d8	99	66 - 138	06/21/19 20:03	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-1	**Units:**	ug/Kg
Lab Code:	R1905686-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,1,2,2-Tetrachloroethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,1,2-Trichloroethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,1-Dichloroethane (1,1-DCA)	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,1-Dichloroethene (1,1-DCE)	0.22 U	3.7	0.22	.65	06/21/19 20:26	
1,2,3-Trichlorobenzene	0.39 U	3.7	0.39	.65	06/21/19 20:26	
1,2,4-Trichlorobenzene	0.31 U	3.7	0.31	.65	06/21/19 20:26	
1,2,4-Trimethylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,2-Dibromo-3-chloropropane (DBCP)	0.22 U	3.7	0.22	.65	06/21/19 20:26	
1,2-Dibromoethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,2-Dichlorobenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,2-Dichloroethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,2-Dichloropropane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,3,5-Trimethylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,3-Dichlorobenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
1,4-Dichlorobenzene	0.17 U	3.7	0.17	.65	06/21/19 20:26	
1,4-Dioxane	15 U	73	15	.65	06/21/19 20:26	
2-Butanone (MEK)	1.5 U	3.7	1.5	.65	06/21/19 20:26	
2-Hexanone	0.27 U	3.7	0.27	.65	06/21/19 20:26	
4-Isopropyltoluene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
4-Methyl-2-pentanone	0.17 U	3.7	0.17	.65	06/21/19 20:26	
Acetone	**4.9**	3.7	3.5	.65	06/21/19 20:26	
Benzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Bromochloromethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Bromodichloromethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Bromoform	0.37 U	3.7	0.37	.65	06/21/19 20:26	
Bromomethane	1.6 U	3.7	1.6	.65	06/21/19 20:26	
Carbon Disulfide	0.22 U	3.7	0.22	.65	06/21/19 20:26	
Carbon Tetrachloride	0.20 U	3.7	0.20	.65	06/21/19 20:26	
Chlorobenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Chloroethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Chloroform	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Chloromethane	1.1 U	3.7	1.1	.65	06/21/19 20:26	
Cyclohexane	0.20 U	3.7	0.20	.65	06/21/19 20:26	
Dibromochloromethane	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Dichlorodifluoromethane (CFC 12)	0.25 U	3.7	0.25	.65	06/21/19 20:26	
Dichloromethane	2.1 U	3.7	2.1	.65	06/21/19 20:26	
Ethylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Isopropylbenzene (Cumene)	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Methyl Acetate	**6.4**	3.7	0.62	.65	06/21/19 20:26	
Methyl tert-Butyl Ether	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Methylcyclohexane	0.23 U	3.7	0.23	.65	06/21/19 20:26	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-1	**Units:**	ug/Kg
Lab Code:	R1905686-009	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.41 U	3.7	0.41	.65	06/21/19 20:26	
Styrene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
Tetrachloroethene (PCE)	0.17 U	3.7	0.17	.65	06/21/19 20:26	
Toluene	**0.22 J**	3.7	0.15	.65	06/21/19 20:26	
Trichloroethene (TCE)	0.17 U	3.7	0.17	.65	06/21/19 20:26	
Trichlorofluoromethane (CFC 11)	0.20 U	3.7	0.20	.65	06/21/19 20:26	
Vinyl Chloride	0.34 U	3.7	0.34	.65	06/21/19 20:26	
cis-1,2-Dichloroethene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
cis-1,3-Dichloropropene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
m,p-Xylenes	0.28 U	7.3	0.28	.65	06/21/19 20:26	
n-Butylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
n-Propylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
o-Xylene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
sec-Butylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
tert-Butylbenzene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
trans-1,2-Dichloroethene	0.15 U	3.7	0.15	.65	06/21/19 20:26	
trans-1,3-Dichloropropene	0.15 U	3.7	0.15	.65	06/21/19 20:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	31 - 154	06/21/19 20:26	
Dibromofluoromethane	94	63 - 138	06/21/19 20:26	
Toluene-d8	98	66 - 138	06/21/19 20:26	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-2	**Units:**	ug/Kg
Lab Code:	R1905686-010	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,1,2,2-Tetrachloroethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,1,2-Trichloroethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,1-Dichloroethane (1,1-DCA)	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,1-Dichloroethene (1,1-DCE)	0.21 U	3.5	0.21	.63	06/21/19 20:50	
1,2,3-Trichlorobenzene	0.37 U	3.5	0.37	.63	06/21/19 20:50	
1,2,4-Trichlorobenzene	0.30 U	3.5	0.30	.63	06/21/19 20:50	
1,2,4-Trimethylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,2-Dibromo-3-chloropropane (DBCP)	0.21 U	3.5	0.21	.63	06/21/19 20:50	
1,2-Dibromoethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,2-Dichlorobenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,2-Dichloroethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,2-Dichloropropane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,3,5-Trimethylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,3-Dichlorobenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
1,4-Dichlorobenzene	0.16 U	3.5	0.16	.63	06/21/19 20:50	
1,4-Dioxane	15 U	70	15	.63	06/21/19 20:50	
2-Butanone (MEK)	1.5 U	3.5	1.5	.63	06/21/19 20:50	
2-Hexanone	0.26 U	3.5	0.26	.63	06/21/19 20:50	
4-Isopropyltoluene	**1.6 J**	3.5	0.15	.63	06/21/19 20:50	
4-Methyl-2-pentanone	0.17 U	3.5	0.17	.63	06/21/19 20:50	
Acetone	**8.8**	3.5	3.4	.63	06/21/19 20:50	
Benzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Bromochloromethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Bromodichloromethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Bromoform	0.36 U	3.5	0.36	.63	06/21/19 20:50	
Bromomethane	1.5 U	3.5	1.5	.63	06/21/19 20:50	
Carbon Disulfide	0.21 U	3.5	0.21	.63	06/21/19 20:50	
Carbon Tetrachloride	0.19 U	3.5	0.19	.63	06/21/19 20:50	
Chlorobenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Chloroethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Chloroform	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Chloromethane	0.99 U	3.5	0.99	.63	06/21/19 20:50	
Cyclohexane	0.19 U	3.5	0.19	.63	06/21/19 20:50	
Dibromochloromethane	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Dichlorodifluoromethane (CFC 12)	0.24 U	3.5	0.24	.63	06/21/19 20:50	
Dichloromethane	2.0 U	3.5	2.0	.63	06/21/19 20:50	
Ethylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Isopropylbenzene (Cumene)	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Methyl Acetate	**4.9**	3.5	0.59	.63	06/21/19 20:50	
Methyl tert-Butyl Ether	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Methylcyclohexane	0.22 U	3.5	0.22	.63	06/21/19 20:50	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-2	**Units:**	ug/Kg
Lab Code:	R1905686-010	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.39 U	3.5	0.39	.63	06/21/19 20:50	
Styrene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
Tetrachloroethene (PCE)	0.17 U	3.5	0.17	.63	06/21/19 20:50	
Toluene	**0.20 J**	3.5	0.15	.63	06/21/19 20:50	
Trichloroethene (TCE)	0.16 U	3.5	0.16	.63	06/21/19 20:50	
Trichlorofluoromethane (CFC 11)	0.19 U	3.5	0.19	.63	06/21/19 20:50	
Vinyl Chloride	0.33 U	3.5	0.33	.63	06/21/19 20:50	
cis-1,2-Dichloroethene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
cis-1,3-Dichloropropene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
m,p-Xylenes	0.26 U	7.0	0.26	.63	06/21/19 20:50	
n-Butylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
n-Propylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
o-Xylene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
sec-Butylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
tert-Butylbenzene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
trans-1,2-Dichloroethene	0.15 U	3.5	0.15	.63	06/21/19 20:50	
trans-1,3-Dichloropropene	0.15 U	3.5	0.15	.63	06/21/19 20:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	06/21/19 20:50	
Dibromofluoromethane	92	63 - 138	06/21/19 20:50	
Toluene-d8	99	66 - 138	06/21/19 20:50	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-1	**Units:**	ug/Kg
Lab Code:	R1905686-011	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,1,2,2-Tetrachloroethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,1,2-Trichloroethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,1-Dichloroethane (1,1-DCA)	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,1-Dichloroethene (1,1-DCE)	0.27 U	4.6	0.27	.83	06/21/19 21:13	
1,2,3-Trichlorobenzene	0.48 U	4.6	0.48	.83	06/21/19 21:13	
1,2,4-Trichlorobenzene	0.39 U	4.6	0.39	.83	06/21/19 21:13	
1,2,4-Trimethylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.27 U	4.6	0.27	.83	06/21/19 21:13	
1,2-Dibromoethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,2-Dichlorobenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,2-Dichloroethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,2-Dichloropropane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,3,5-Trimethylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,3-Dichlorobenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
1,4-Dichlorobenzene	0.21 U	4.6	0.21	.83	06/21/19 21:13	
1,4-Dioxane	19 U	92	19	.83	06/21/19 21:13	
2-Butanone (MEK)	1.9 U	4.6	1.9	.83	06/21/19 21:13	
2-Hexanone	0.33 U	4.6	0.33	.83	06/21/19 21:13	
4-Isopropyltoluene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
4-Methyl-2-pentanone	0.22 U	4.6	0.22	.83	06/21/19 21:13	
Acetone	4.4 U	4.6	4.4	.83	06/21/19 21:13	
Benzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Bromochloromethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Bromodichloromethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Bromoform	0.46 U	4.6	0.46	.83	06/21/19 21:13	
Bromomethane	2.0 U	4.6	2.0	.83	06/21/19 21:13	
Carbon Disulfide	0.27 U	4.6	0.27	.83	06/21/19 21:13	
Carbon Tetrachloride	0.24 U	4.6	0.24	.83	06/21/19 21:13	
Chlorobenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Chloroethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Chloroform	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Chloromethane	1.3 U	4.6	1.3	.83	06/21/19 21:13	
Cyclohexane	0.24 U	4.6	0.24	.83	06/21/19 21:13	
Dibromochloromethane	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Dichlorodifluoromethane (CFC 12)	0.31 U	4.6	0.31	.83	06/21/19 21:13	
Dichloromethane	2.6 U	4.6	2.6	.83	06/21/19 21:13	
Ethylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Isopropylbenzene (Cumene)	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Methyl Acetate	0.77 U	4.6	0.77	.83	06/21/19 21:13	
Methyl tert-Butyl Ether	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Methylcyclohexane	0.29 U	4.6	0.29	.83	06/21/19 21:13	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-1	**Units:**	ug/Kg
Lab Code:	R1905686-011	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.51 U	4.6	0.51	.83	06/21/19 21:13	
Styrene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
Tetrachloroethene (PCE)	0.22 U	4.6	0.22	.83	06/21/19 21:13	
Toluene	**0.28 J**	4.6	0.19	.83	06/21/19 21:13	
Trichloroethene (TCE)	0.21 U	4.6	0.21	.83	06/21/19 21:13	
Trichlorofluoromethane (CFC 11)	0.24 U	4.6	0.24	.83	06/21/19 21:13	
Vinyl Chloride	0.43 U	4.6	0.43	.83	06/21/19 21:13	
cis-1,2-Dichloroethene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
cis-1,3-Dichloropropene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
m,p-Xylenes	0.34 U	9.2	0.34	.83	06/21/19 21:13	
n-Butylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
n-Propylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
o-Xylene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
sec-Butylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
tert-Butylbenzene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
trans-1,2-Dichloroethene	0.19 U	4.6	0.19	.83	06/21/19 21:13	
trans-1,3-Dichloropropene	0.19 U	4.6	0.19	.83	06/21/19 21:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	31 - 154	06/21/19 21:13	
Dibromofluoromethane	95	63 - 138	06/21/19 21:13	
Toluene-d8	97	66 - 138	06/21/19 21:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-2	**Units:**	ug/Kg
Lab Code:	R1905686-012	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,1,2,2-Tetrachloroethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,1,2-Trichloroethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,1-Dichloroethane (1,1-DCA)	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,1-Dichloroethene (1,1-DCE)	0.22 U	3.7	0.22	.66	06/21/19 21:36	
1,2,3-Trichlorobenzene	0.39 U	3.7	0.39	.66	06/21/19 21:36	
1,2,4-Trichlorobenzene	0.31 U	3.7	0.31	.66	06/21/19 21:36	
1,2,4-Trimethylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,2-Dibromo-3-chloropropane (DBCP)	0.22 U	3.7	0.22	.66	06/21/19 21:36	
1,2-Dibromoethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,2-Dichlorobenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,2-Dichloroethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,2-Dichloropropane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,3,5-Trimethylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,3-Dichlorobenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
1,4-Dichlorobenzene	0.17 U	3.7	0.17	.66	06/21/19 21:36	
1,4-Dioxane	15 U	74	15	.66	06/21/19 21:36	
2-Butanone (MEK)	1.5 U	3.7	1.5	.66	06/21/19 21:36	
2-Hexanone	0.27 U	3.7	0.27	.66	06/21/19 21:36	
4-Isopropyltoluene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
4-Methyl-2-pentanone	0.17 U	3.7	0.17	.66	06/21/19 21:36	
Acetone	**11**	3.7	3.5	.66	06/21/19 21:36	
Benzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Bromochloromethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Bromodichloromethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Bromoform	0.37 U	3.7	0.37	.66	06/21/19 21:36	
Bromomethane	1.6 U	3.7	1.6	.66	06/21/19 21:36	
Carbon Disulfide	0.22 U	3.7	0.22	.66	06/21/19 21:36	
Carbon Tetrachloride	0.20 U	3.7	0.20	.66	06/21/19 21:36	
Chlorobenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Chloroethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Chloroform	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Chloromethane	1.1 U	3.7	1.1	.66	06/21/19 21:36	
Cyclohexane	0.20 U	3.7	0.20	.66	06/21/19 21:36	
Dibromochloromethane	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Dichlorodifluoromethane (CFC 12)	0.25 U	3.7	0.25	.66	06/21/19 21:36	
Dichloromethane	2.1 U	3.7	2.1	.66	06/21/19 21:36	
Ethylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Isopropylbenzene (Cumene)	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Methyl Acetate	0.62 U	3.7	0.62	.66	06/21/19 21:36	
Methyl tert-Butyl Ether	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Methylcyclohexane	0.23 U	3.7	0.23	.66	06/21/19 21:36	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-2	**Units:**	ug/Kg
Lab Code:	R1905686-012	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.41 U	3.7	0.41	.66	06/21/19 21:36	
Styrene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
Tetrachloroethene (PCE)	0.17 U	3.7	0.17	.66	06/21/19 21:36	
Toluene	**0.19 J**	3.7	0.15	.66	06/21/19 21:36	
Trichloroethene (TCE)	0.17 U	3.7	0.17	.66	06/21/19 21:36	
Trichlorofluoromethane (CFC 11)	0.20 U	3.7	0.20	.66	06/21/19 21:36	
Vinyl Chloride	0.34 U	3.7	0.34	.66	06/21/19 21:36	
cis-1,2-Dichloroethene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
cis-1,3-Dichloropropene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
m,p-Xylenes	0.28 U	7.4	0.28	.66	06/21/19 21:36	
n-Butylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
n-Propylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
o-Xylene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
sec-Butylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
tert-Butylbenzene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
trans-1,2-Dichloroethene	0.15 U	3.7	0.15	.66	06/21/19 21:36	
trans-1,3-Dichloropropene	0.15 U	3.7	0.15	.66	06/21/19 21:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	31 - 154	06/21/19 21:36	
Dibromofluoromethane	96	63 - 138	06/21/19 21:36	
Toluene-d8	97	66 - 138	06/21/19 21:36	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-3	**Units:**	ug/Kg
Lab Code:	R1905686-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,1,2,2-Tetrachloroethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,1,2-Trichloroethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,1-Dichloroethane (1,1-DCA)	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,1-Dichloroethene (1,1-DCE)	0.22 U	3.7	0.22	.68	06/24/19 12:36	
1,2,3-Trichlorobenzene	0.39 U	3.7	0.39	.68	06/24/19 12:36	
1,2,4-Trichlorobenzene	0.31 U	3.7	0.31	.68	06/24/19 12:36	
1,2,4-Trimethylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,2-Dibromo-3-chloropropane (DBCP)	0.22 U	3.7	0.22	.68	06/24/19 12:36	
1,2-Dibromoethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,2-Dichlorobenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,2-Dichloroethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,2-Dichloropropane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,3,5-Trimethylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,3-Dichlorobenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
1,4-Dichlorobenzene	0.17 U	3.7	0.17	.68	06/24/19 12:36	
1,4-Dioxane	15 U	74	15	.68	06/24/19 12:36	
2-Butanone (MEK)	1.5 U	3.7	1.5	.68	06/24/19 12:36	
2-Hexanone	0.27 U	3.7	0.27	.68	06/24/19 12:36	
4-Isopropyltoluene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
4-Methyl-2-pentanone	0.17 U	3.7	0.17	.68	06/24/19 12:36	
Acetone	3.5 U	3.7	3.5	.68	06/24/19 12:36	
Benzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Bromochloromethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Bromodichloromethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Bromoform	0.37 U	3.7	0.37	.68	06/24/19 12:36	
Bromomethane	1.6 U	3.7	1.6	.68	06/24/19 12:36	
Carbon Disulfide	0.22 U	3.7	0.22	.68	06/24/19 12:36	
Carbon Tetrachloride	0.20 U	3.7	0.20	.68	06/24/19 12:36	
Chlorobenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Chloroethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Chloroform	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Chloromethane	1.1 U	3.7	1.1	.68	06/24/19 12:36	
Cyclohexane	0.20 U	3.7	0.20	.68	06/24/19 12:36	
Dibromochloromethane	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Dichlorodifluoromethane (CFC 12)	0.25 U	3.7	0.25	.68	06/24/19 12:36	
Dichloromethane	2.1 U	3.7	2.1	.68	06/24/19 12:36	
Ethylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Isopropylbenzene (Cumene)	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Methyl Acetate	0.62 U	3.7	0.62	.68	06/24/19 12:36	
Methyl tert-Butyl Ether	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Methylcyclohexane	0.23 U	3.7	0.23	.68	06/24/19 12:36	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-3	**Units:**	ug/Kg
Lab Code:	R1905686-013	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.41 U	3.7	0.41	.68	06/24/19 12:36	
Styrene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
Tetrachloroethene (PCE)	0.17 U	3.7	0.17	.68	06/24/19 12:36	
Toluene	**0.36 J**	3.7	0.15	.68	06/24/19 12:36	
Trichloroethene (TCE)	0.17 U	3.7	0.17	.68	06/24/19 12:36	
Trichlorofluoromethane (CFC 11)	0.20 U	3.7	0.20	.68	06/24/19 12:36	
Vinyl Chloride	0.34 U	3.7	0.34	.68	06/24/19 12:36	
cis-1,2-Dichloroethene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
cis-1,3-Dichloropropene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
m,p-Xylenes	0.28 U	7.4	0.28	.68	06/24/19 12:36	
n-Butylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
n-Propylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
o-Xylene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
sec-Butylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
tert-Butylbenzene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
trans-1,2-Dichloroethene	0.15 U	3.7	0.15	.68	06/24/19 12:36	
trans-1,3-Dichloropropene	0.15 U	3.7	0.15	.68	06/24/19 12:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	06/24/19 12:36	
Dibromofluoromethane	98	63 - 138	06/24/19 12:36	
Toluene-d8	98	66 - 138	06/24/19 12:36	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	88 U	370	88	1	07/12/19 12:47	7/1/19	
2,3,4,6-Tetrachlorophenol	78 U	370	78	1	07/12/19 12:47	7/1/19	
2,4,5-Trichlorophenol	320 U	370	320	1	07/12/19 12:47	7/1/19	
2,4,6-Trichlorophenol	66 U	370	66	1	07/12/19 12:47	7/1/19	
2,4-Dichlorophenol	79 U	370	79	1	07/12/19 12:47	7/1/19	
2,4-Dimethylphenol	81 U	370	81	1	07/12/19 12:47	7/1/19	
2,4-Dinitrophenol	140 U	1900	140	1	07/12/19 12:47	7/1/19	
2,4-Dinitrotoluene	150 U	370	150	1	07/12/19 12:47	7/1/19	
2,6-Dinitrotoluene	110 U	370	110	1	07/12/19 12:47	7/1/19	
2-Chloronaphthalene	89 U	370	89	1	07/12/19 12:47	7/1/19	
2-Chlorophenol	91 U	370	91	1	07/12/19 12:47	7/1/19	
2-Methylnaphthalene	81 U	370	81	1	07/12/19 12:47	7/1/19	
2-Methylphenol	80 U	370	80	1	07/12/19 12:47	7/1/19	
2-Nitroaniline	110 U	1900	110	1	07/12/19 12:47	7/1/19	
2-Nitrophenol	110 U	370	110	1	07/12/19 12:47	7/1/19	
3,3'-Dichlorobenzidine	78 U	370	78	1	07/12/19 12:47	7/1/19	
3- and 4-Methylphenol Coelution	71 U	370	71	1	07/12/19 12:47	7/1/19	
3-Nitroaniline	79 U	1900	79	1	07/12/19 12:47	7/1/19	
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/12/19 12:47	7/1/19	
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/12/19 12:47	7/1/19	
4-Chloro-3-methylphenol	81 U	370	81	1	07/12/19 12:47	7/1/19	
4-Chloroaniline	88 U	370	88	1	07/12/19 12:47	7/1/19	
4-Chlorophenyl Phenyl Ether	89 U	370	89	1	07/12/19 12:47	7/1/19	
4-Nitroaniline	79 U	1900	79	1	07/12/19 12:47	7/1/19	
4-Nitrophenol	130 U	1900	130	1	07/12/19 12:47	7/1/19	
Acenaphthene	84 U	370	84	1	07/12/19 12:47	7/1/19	
Acenaphthylene	98 U	370	98	1	07/12/19 12:47	7/1/19	
Acetophenone	85 U	370	85	1	07/12/19 12:47	7/1/19	
Anthracene	110 U	370	110	1	07/12/19 12:47	7/1/19	
Atrazine	150 U	370	150	1	07/12/19 12:47	7/1/19	
Benz(a)anthracene	110 U	370	110	1	07/12/19 12:47	7/1/19	
Benzaldehyde	73 U	1900	73	1	07/12/19 12:47	7/1/19	
Benzo(a)pyrene	140 U	370	140	1	07/12/19 12:47	7/1/19	
Benzo(b)fluoranthene	130 U	370	130	1	07/12/19 12:47	7/1/19	
Benzo(g,h,i)perylene	98 U	370	98	1	07/12/19 12:47	7/1/19	
Benzo(k)fluoranthene	140 U	370	140	1	07/12/19 12:47	7/1/19	
Biphenyl	91 U	370	91	1	07/12/19 12:47	7/1/19	
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/12/19 12:47	7/1/19	
Bis(2-chloroethoxy)methane	99 U	370	99	1	07/12/19 12:47	7/1/19	
Bis(2-chloroethyl) Ether	97 U	370	97	1	07/12/19 12:47	7/1/19	
Bis(2-ethylhexyl) Phthalate	99 U	560	99	1	07/12/19 12:47	7/1/19	
Butyl Benzyl Phthalate	92 U	370	92	1	07/12/19 12:47	7/1/19	
Caprolactam	97 U	370	97	1	07/12/19 12:47	7/1/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/12/19 12:47	7/1/19	
Chrysene	140 U	370	140	1	07/12/19 12:47	7/1/19	
Di-n-butyl Phthalate	120 U	370	120	1	07/12/19 12:47	7/1/19	
Di-n-octyl Phthalate	110 U	370	110	1	07/12/19 12:47	7/1/19	
Dibenz(a,h)anthracene	110 U	370	110	1	07/12/19 12:47	7/1/19	
Dibenzofuran	73 U	370	73	1	07/12/19 12:47	7/1/19	
Diethyl Phthalate	79 U	370	79	1	07/12/19 12:47	7/1/19	
Dimethyl Phthalate	84 U	370	84	1	07/12/19 12:47	7/1/19	
Fluoranthene	140 U	370	140	1	07/12/19 12:47	7/1/19	
Fluorene	86 U	370	86	1	07/12/19 12:47	7/1/19	
Hexachlorobenzene	120 U	370	120	1	07/12/19 12:47	7/1/19	
Hexachlorobutadiene	90 U	370	90	1	07/12/19 12:47	7/1/19	
Hexachlorocyclopentadiene	81 U	370	81	1	07/12/19 12:47	7/1/19	
Hexachloroethane	96 U	370	96	1	07/12/19 12:47	7/1/19	
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/12/19 12:47	7/1/19	
Isophorone	110 U	370	110	1	07/12/19 12:47	7/1/19	
N-Nitrosodi-n-propylamine	99 U	370	99	1	07/12/19 12:47	7/1/19	
N-Nitrosodiphenylamine	250 U	370	250	1	07/12/19 12:47	7/1/19	
Naphthalene	96 U	370	96	1	07/12/19 12:47	7/1/19	
Nitrobenzene	96 U	370	96	1	07/12/19 12:47	7/1/19	
Pentachlorophenol (PCP)	130 U	1900	130	1	07/12/19 12:47	7/1/19	
Phenanthrene	110 U	370	110	1	07/12/19 12:47	7/1/19	
Phenol	88 U	370	88	1	07/12/19 12:47	7/1/19	
Pyrene	150 U	370	150	1	07/12/19 12:47	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	26	10 - 109	07/12/19 12:47	
2-Fluorobiphenyl	24	10 - 102	07/12/19 12:47	
2-Fluorophenol	33	10 - 88	07/12/19 12:47	
Nitrobenzene-d5	28	10 - 95	07/12/19 12:47	
Phenol-d6	38	10 - 145	07/12/19 12:47	
Terphenyl-d14	26	10 - 106	07/12/19 12:47	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	89 U	370	89	1	07/15/19 18:16	7/11/19	*
2,3,4,6-Tetrachlorophenol	79 U	370	79	1	07/15/19 18:16	7/11/19	*
2,4,5-Trichlorophenol	320 U	370	320	1	07/15/19 18:16	7/11/19	*
2,4,6-Trichlorophenol	66 U	370	66	1	07/15/19 18:16	7/11/19	*
2,4-Dichlorophenol	80 U	370	80	1	07/15/19 18:16	7/11/19	*
2,4-Dimethylphenol	82 U	370	82	1	07/15/19 18:16	7/11/19	*
2,4-Dinitrophenol	140 U	1900	140	1	07/15/19 18:16	7/11/19	*
2,4-Dinitrotoluene	150 U	370	150	1	07/15/19 18:16	7/11/19	*
2,6-Dinitrotoluene	110 U	370	110	1	07/15/19 18:16	7/11/19	*
2-Chloronaphthalene	90 U	370	90	1	07/15/19 18:16	7/11/19	*
2-Chlorophenol	92 U	370	92	1	07/15/19 18:16	7/11/19	*
2-Methylnaphthalene	82 U	370	82	1	07/15/19 18:16	7/11/19	*
2-Methylphenol	81 U	370	81	1	07/15/19 18:16	7/11/19	*
2-Nitroaniline	120 U	1900	120	1	07/15/19 18:16	7/11/19	*
2-Nitrophenol	110 U	370	110	1	07/15/19 18:16	7/11/19	*
3,3'-Dichlorobenzidine	79 U	370	79	1	07/15/19 18:16	7/11/19	*
3- and 4-Methylphenol Coelution	72 U	370	72	1	07/15/19 18:16	7/11/19	*
3-Nitroaniline	80 U	1900	80	1	07/15/19 18:16	7/11/19	*
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/15/19 18:16	7/11/19	*
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/15/19 18:16	7/11/19	*
4-Chloro-3-methylphenol	82 U	370	82	1	07/15/19 18:16	7/11/19	*
4-Chloroaniline	89 U	370	89	1	07/15/19 18:16	7/11/19	*
4-Chlorophenyl Phenyl Ether	90 U	370	90	1	07/15/19 18:16	7/11/19	*
4-Nitroaniline	80 U	1900	80	1	07/15/19 18:16	7/11/19	*
4-Nitrophenol	130 U	1900	130	1	07/15/19 18:16	7/11/19	*
Acenaphthene	84 U	370	84	1	07/15/19 18:16	7/11/19	*
Acenaphthylene	99 U	370	99	1	07/15/19 18:16	7/11/19	*
Acetophenone	86 U	370	86	1	07/15/19 18:16	7/11/19	*
Anthracene	110 U	370	110	1	07/15/19 18:16	7/11/19	*
Atrazine	150 U	370	150	1	07/15/19 18:16	7/11/19	*
Benz(a)anthracene	120 U	370	120	1	07/15/19 18:16	7/11/19	*
Benzaldehyde	74 U	1900	74	1	07/15/19 18:16	7/11/19	*
Benzo(a)pyrene	140 U	370	140	1	07/15/19 18:16	7/11/19	*
Benzo(b)fluoranthene	130 U	370	130	1	07/15/19 18:16	7/11/19	*
Benzo(g,h,i)perylene	99 U	370	99	1	07/15/19 18:16	7/11/19	*
Benzo(k)fluoranthene	140 U	370	140	1	07/15/19 18:16	7/11/19	*
Biphenyl	92 U	370	92	1	07/15/19 18:16	7/11/19	*
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/15/19 18:16	7/11/19	*
Bis(2-chloroethoxy)methane	100 U	370	100	1	07/15/19 18:16	7/11/19	*
Bis(2-chloroethyl) Ether	98 U	370	98	1	07/15/19 18:16	7/11/19	*
Bis(2-ethylhexyl) Phthalate	100 U	570	100	1	07/15/19 18:16	7/11/19	*
Butyl Benzyl Phthalate	94 U	370	94	1	07/15/19 18:16	7/11/19	*
Caprolactam	98 U	370	98	1	07/15/19 18:16	7/11/19	*

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/15/19 18:16	7/11/19	*
Chrysene	140 U	370	140	1	07/15/19 18:16	7/11/19	*
Di-n-butyl Phthalate	120 U	370	120	1	07/15/19 18:16	7/11/19	*
Di-n-octyl Phthalate	120 U	370	120	1	07/15/19 18:16	7/11/19	*
Dibenz(a,h)anthracene	120 U	370	120	1	07/15/19 18:16	7/11/19	*
Dibenzofuran	74 U	370	74	1	07/15/19 18:16	7/11/19	*
Diethyl Phthalate	80 U	370	80	1	07/15/19 18:16	7/11/19	*
Dimethyl Phthalate	84 U	370	84	1	07/15/19 18:16	7/11/19	*
Fluoranthene	140 U	370	140	1	07/15/19 18:16	7/11/19	*
Fluorene	87 U	370	87	1	07/15/19 18:16	7/11/19	*
Hexachlorobenzene	120 U	370	120	1	07/15/19 18:16	7/11/19	*
Hexachlorobutadiene	91 U	370	91	1	07/15/19 18:16	7/11/19	*
Hexachlorocyclopentadiene	82 U	370	82	1	07/15/19 18:16	7/11/19	*
Hexachloroethane	97 U	370	97	1	07/15/19 18:16	7/11/19	*
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/15/19 18:16	7/11/19	*
Isophorone	110 U	370	110	1	07/15/19 18:16	7/11/19	*
N-Nitrosodi-n-propylamine	100 U	370	100	1	07/15/19 18:16	7/11/19	*
N-Nitrosodiphenylamine	250 U	370	250	1	07/15/19 18:16	7/11/19	*
Naphthalene	97 U	370	97	1	07/15/19 18:16	7/11/19	*
Nitrobenzene	97 U	370	97	1	07/15/19 18:16	7/11/19	*
Pentachlorophenol (PCP)	130 U	1900	130	1	07/15/19 18:16	7/11/19	*
Phenanthrene	110 U	370	110	1	07/15/19 18:16	7/11/19	*
Phenol	89 U	370	89	1	07/15/19 18:16	7/11/19	*
Pyrene	150 U	370	150	1	07/15/19 18:16	7/11/19	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	40	10 - 109	07/15/19 18:16	
2-Fluorobiphenyl	44	10 - 102	07/15/19 18:16	
2-Fluorophenol	44	10 - 88	07/15/19 18:16	
Nitrobenzene-d5	42	10 - 95	07/15/19 18:16	
Phenol-d6	41	10 - 145	07/15/19 18:16	
Terphenyl-d14	59	10 - 106	07/15/19 18:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000123-42-2	unknown	3.31	6100	JN

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	87 U	360	87	1	07/12/19 13:15	7/1/19	
2,3,4,6-Tetrachlorophenol	77 U	360	77	1	07/12/19 13:15	7/1/19	
2,4,5-Trichlorophenol	310 U	360	310	1	07/12/19 13:15	7/1/19	
2,4,6-Trichlorophenol	65 U	360	65	1	07/12/19 13:15	7/1/19	
2,4-Dichlorophenol	78 U	360	78	1	07/12/19 13:15	7/1/19	
2,4-Dimethylphenol	80 U	360	80	1	07/12/19 13:15	7/1/19	
2,4-Dinitrophenol	140 U	1900	140	1	07/12/19 13:15	7/1/19	
2,4-Dinitrotoluene	150 U	360	150	1	07/12/19 13:15	7/1/19	
2,6-Dinitrotoluene	110 U	360	110	1	07/12/19 13:15	7/1/19	
2-Chloronaphthalene	88 U	360	88	1	07/12/19 13:15	7/1/19	
2-Chlorophenol	90 U	360	90	1	07/12/19 13:15	7/1/19	
2-Methylnaphthalene	80 U	360	80	1	07/12/19 13:15	7/1/19	
2-Methylphenol	79 U	360	79	1	07/12/19 13:15	7/1/19	
2-Nitroaniline	110 U	1900	110	1	07/12/19 13:15	7/1/19	
2-Nitrophenol	110 U	360	110	1	07/12/19 13:15	7/1/19	
3,3'-Dichlorobenzidine	77 U	360	77	1	07/12/19 13:15	7/1/19	
3- and 4-Methylphenol Coelution	70 U	360	70	1	07/12/19 13:15	7/1/19	
3-Nitroaniline	78 U	1900	78	1	07/12/19 13:15	7/1/19	
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/12/19 13:15	7/1/19	
4-Bromophenyl Phenyl Ether	140 U	360	140	1	07/12/19 13:15	7/1/19	
4-Chloro-3-methylphenol	80 U	360	80	1	07/12/19 13:15	7/1/19	
4-Chloroaniline	87 U	360	87	1	07/12/19 13:15	7/1/19	
4-Chlorophenyl Phenyl Ether	88 U	360	88	1	07/12/19 13:15	7/1/19	
4-Nitroaniline	78 U	1900	78	1	07/12/19 13:15	7/1/19	
4-Nitrophenol	130 U	1900	130	1	07/12/19 13:15	7/1/19	
Acenaphthene	82 U	360	82	1	07/12/19 13:15	7/1/19	
Acenaphthylene	97 U	360	97	1	07/12/19 13:15	7/1/19	
Acetophenone	83 U	360	83	1	07/12/19 13:15	7/1/19	
Anthracene	110 U	360	110	1	07/12/19 13:15	7/1/19	
Atrazine	150 U	360	150	1	07/12/19 13:15	7/1/19	
Benz(a)anthracene	110 U	360	110	1	07/12/19 13:15	7/1/19	
Benzaldehyde	72 U	1900	72	1	07/12/19 13:15	7/1/19	
Benzo(a)pyrene	140 U	360	140	1	07/12/19 13:15	7/1/19	
Benzo(b)fluoranthene	130 U	360	130	1	07/12/19 13:15	7/1/19	
Benzo(g,h,i)perylene	97 U	360	97	1	07/12/19 13:15	7/1/19	
Benzo(k)fluoranthene	140 U	360	140	1	07/12/19 13:15	7/1/19	
Biphenyl	90 U	360	90	1	07/12/19 13:15	7/1/19	
2,2'-Oxybis(1-chloropropane)	150 U	360	150	1	07/12/19 13:15	7/1/19	
Bis(2-chloroethoxy)methane	98 U	360	98	1	07/12/19 13:15	7/1/19	
Bis(2-chloroethyl) Ether	96 U	360	96	1	07/12/19 13:15	7/1/19	
Bis(2-ethylhexyl) Phthalate	98 U	550	98	1	07/12/19 13:15	7/1/19	
Butyl Benzyl Phthalate	91 U	360	91	1	07/12/19 13:15	7/1/19	
Caprolactam	96 U	360	96	1	07/12/19 13:15	7/1/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	360	110	1	07/12/19 13:15	7/1/19	
Chrysene	140 U	360	140	1	07/12/19 13:15	7/1/19	
Di-n-butyl Phthalate	120 U	360	120	1	07/12/19 13:15	7/1/19	
Di-n-octyl Phthalate	110 U	360	110	1	07/12/19 13:15	7/1/19	
Dibenz(a,h)anthracene	110 U	360	110	1	07/12/19 13:15	7/1/19	
Dibenzofuran	72 U	360	72	1	07/12/19 13:15	7/1/19	
Diethyl Phthalate	78 U	360	78	1	07/12/19 13:15	7/1/19	
Dimethyl Phthalate	82 U	360	82	1	07/12/19 13:15	7/1/19	
Fluoranthene	140 U	360	140	1	07/12/19 13:15	7/1/19	
Fluorene	84 U	360	84	1	07/12/19 13:15	7/1/19	
Hexachlorobenzene	120 U	360	120	1	07/12/19 13:15	7/1/19	
Hexachlorobutadiene	89 U	360	89	1	07/12/19 13:15	7/1/19	
Hexachlorocyclopentadiene	80 U	360	80	1	07/12/19 13:15	7/1/19	
Hexachloroethane	94 U	360	94	1	07/12/19 13:15	7/1/19	
Indeno(1,2,3-cd)pyrene	130 U	360	130	1	07/12/19 13:15	7/1/19	
Isophorone	100 U	360	100	1	07/12/19 13:15	7/1/19	
N-Nitrosodi-n-propylamine	98 U	360	98	1	07/12/19 13:15	7/1/19	
N-Nitrosodiphenylamine	250 U	360	250	1	07/12/19 13:15	7/1/19	
Naphthalene	94 U	360	94	1	07/12/19 13:15	7/1/19	
Nitrobenzene	94 U	360	94	1	07/12/19 13:15	7/1/19	
Pentachlorophenol (PCP)	130 U	1900	130	1	07/12/19 13:15	7/1/19	
Phenanthrene	110 U	360	110	1	07/12/19 13:15	7/1/19	
Phenol	87 U	360	87	1	07/12/19 13:15	7/1/19	
Pyrene	150 U	360	150	1	07/12/19 13:15	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	21	10 - 109	07/12/19 13:15	
2-Fluorobiphenyl	28	10 - 102	07/12/19 13:15	
2-Fluorophenol	29	10 - 88	07/12/19 13:15	
Nitrobenzene-d5	26	10 - 95	07/12/19 13:15	
Phenol-d6	28	10 - 145	07/12/19 13:15	
Terphenyl-d14	29	10 - 106	07/12/19 13:15	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	86 U	360	86	1	07/15/19 18:45	7/11/19	*
2,3,4,6-Tetrachlorophenol	76 U	360	76	1	07/15/19 18:45	7/11/19	*
2,4,5-Trichlorophenol	310 U	360	310	1	07/15/19 18:45	7/11/19	*
2,4,6-Trichlorophenol	64 U	360	64	1	07/15/19 18:45	7/11/19	*
2,4-Dichlorophenol	77 U	360	77	1	07/15/19 18:45	7/11/19	*
2,4-Dimethylphenol	79 U	360	79	1	07/15/19 18:45	7/11/19	*
2,4-Dinitrophenol	140 U	1900	140	1	07/15/19 18:45	7/11/19	*
2,4-Dinitrotoluene	150 U	360	150	1	07/15/19 18:45	7/11/19	*
2,6-Dinitrotoluene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
2-Chloronaphthalene	87 U	360	87	1	07/15/19 18:45	7/11/19	*
2-Chlorophenol	89 U	360	89	1	07/15/19 18:45	7/11/19	*
2-Methylnaphthalene	79 U	360	79	1	07/15/19 18:45	7/11/19	*
2-Methylphenol	78 U	360	78	1	07/15/19 18:45	7/11/19	*
2-Nitroaniline	110 U	1900	110	1	07/15/19 18:45	7/11/19	*
2-Nitrophenol	110 U	360	110	1	07/15/19 18:45	7/11/19	*
3,3'-Dichlorobenzidine	76 U	360	76	1	07/15/19 18:45	7/11/19	*
3- and 4-Methylphenol Coelution	69 U	360	69	1	07/15/19 18:45	7/11/19	*
3-Nitroaniline	77 U	1900	77	1	07/15/19 18:45	7/11/19	*
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/15/19 18:45	7/11/19	*
4-Bromophenyl Phenyl Ether	140 U	360	140	1	07/15/19 18:45	7/11/19	*
4-Chloro-3-methylphenol	79 U	360	79	1	07/15/19 18:45	7/11/19	*
4-Chloroaniline	86 U	360	86	1	07/15/19 18:45	7/11/19	*
4-Chlorophenyl Phenyl Ether	87 U	360	87	1	07/15/19 18:45	7/11/19	*
4-Nitroaniline	77 U	1900	77	1	07/15/19 18:45	7/11/19	*
4-Nitrophenol	130 U	1900	130	1	07/15/19 18:45	7/11/19	*
Acenaphthene	81 U	360	81	1	07/15/19 18:45	7/11/19	*
Acenaphthylene	96 U	360	96	1	07/15/19 18:45	7/11/19	*
Acetophenone	83 U	360	83	1	07/15/19 18:45	7/11/19	*
Anthracene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Atrazine	150 U	360	150	1	07/15/19 18:45	7/11/19	*
Benz(a)anthracene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Benzaldehyde	72 U	1900	72	1	07/15/19 18:45	7/11/19	*
Benzo(a)pyrene	140 U	360	140	1	07/15/19 18:45	7/11/19	*
Benzo(b)fluoranthene	130 U	360	130	1	07/15/19 18:45	7/11/19	*
Benzo(g,h,i)perylene	96 U	360	96	1	07/15/19 18:45	7/11/19	*
Benzo(k)fluoranthene	140 U	360	140	1	07/15/19 18:45	7/11/19	*
Biphenyl	89 U	360	89	1	07/15/19 18:45	7/11/19	*
2,2'-Oxybis(1-chloropropane)	150 U	360	150	1	07/15/19 18:45	7/11/19	*
Bis(2-chloroethoxy)methane	97 U	360	97	1	07/15/19 18:45	7/11/19	*
Bis(2-chloroethyl) Ether	95 U	360	95	1	07/15/19 18:45	7/11/19	*
Bis(2-ethylhexyl) Phthalate	97 U	550	97	1	07/15/19 18:45	7/11/19	*
Butyl Benzyl Phthalate	90 U	360	90	1	07/15/19 18:45	7/11/19	*
Caprolactam	95 U	360	95	1	07/15/19 18:45	7/11/19	*

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Chrysene	140 U	360	140	1	07/15/19 18:45	7/11/19	*
Di-n-butyl Phthalate	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Di-n-octyl Phthalate	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Dibenz(a,h)anthracene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Dibenzofuran	72 U	360	72	1	07/15/19 18:45	7/11/19	*
Diethyl Phthalate	77 U	360	77	1	07/15/19 18:45	7/11/19	*
Dimethyl Phthalate	81 U	360	81	1	07/15/19 18:45	7/11/19	*
Fluoranthene	140 U	360	140	1	07/15/19 18:45	7/11/19	*
Fluorene	84 U	360	84	1	07/15/19 18:45	7/11/19	*
Hexachlorobenzene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Hexachlorobutadiene	88 U	360	88	1	07/15/19 18:45	7/11/19	*
Hexachlorocyclopentadiene	79 U	360	79	1	07/15/19 18:45	7/11/19	*
Hexachloroethane	94 U	360	94	1	07/15/19 18:45	7/11/19	*
Indeno(1,2,3-cd)pyrene	130 U	360	130	1	07/15/19 18:45	7/11/19	*
Isophorone	99 U	360	99	1	07/15/19 18:45	7/11/19	*
N-Nitrosodi-n-propylamine	97 U	360	97	1	07/15/19 18:45	7/11/19	*
N-Nitrosodiphenylamine	250 U	360	250	1	07/15/19 18:45	7/11/19	*
Naphthalene	94 U	360	94	1	07/15/19 18:45	7/11/19	*
Nitrobenzene	94 U	360	94	1	07/15/19 18:45	7/11/19	*
Pentachlorophenol (PCP)	130 U	1900	130	1	07/15/19 18:45	7/11/19	*
Phenanthrene	110 U	360	110	1	07/15/19 18:45	7/11/19	*
Phenol	86 U	360	86	1	07/15/19 18:45	7/11/19	*
Pyrene	150 U	360	150	1	07/15/19 18:45	7/11/19	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	36	10 - 109	07/15/19 18:45	
2-Fluorobiphenyl	39	10 - 102	07/15/19 18:45	
2-Fluorophenol	41	10 - 88	07/15/19 18:45	
Nitrobenzene-d5	38	10 - 95	07/15/19 18:45	
Phenol-d6	39	10 - 145	07/15/19 18:45	
Terphenyl-d14	46	10 - 106	07/15/19 18:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000123-42-2	unklnown	3.31	3400	JN

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	93 U	390	93	1	07/12/19 13:44	7/1/19	
2,3,4,6-Tetrachlorophenol	82 U	390	82	1	07/12/19 13:44	7/1/19	
2,4,5-Trichlorophenol	340 U	390	340	1	07/12/19 13:44	7/1/19	
2,4,6-Trichlorophenol	69 U	390	69	1	07/12/19 13:44	7/1/19	
2,4-Dichlorophenol	84 U	390	84	1	07/12/19 13:44	7/1/19	
2,4-Dimethylphenol	86 U	390	86	1	07/12/19 13:44	7/1/19	
2,4-Dinitrophenol	150 U	2000	150	1	07/12/19 13:44	7/1/19	
2,4-Dinitrotoluene	160 U	390	160	1	07/12/19 13:44	7/1/19	
2,6-Dinitrotoluene	120 U	390	120	1	07/12/19 13:44	7/1/19	
2-Chloronaphthalene	94 U	390	94	1	07/12/19 13:44	7/1/19	
2-Chlorophenol	97 U	390	97	1	07/12/19 13:44	7/1/19	
2-Methylnaphthalene	86 U	390	86	1	07/12/19 13:44	7/1/19	
2-Methylphenol	85 U	390	85	1	07/12/19 13:44	7/1/19	
2-Nitroaniline	120 U	2000	120	1	07/12/19 13:44	7/1/19	
2-Nitrophenol	120 U	390	120	1	07/12/19 13:44	7/1/19	
3,3'-Dichlorobenzidine	82 U	390	82	1	07/12/19 13:44	7/1/19	
3- and 4-Methylphenol Coelution	75 U	390	75	1	07/12/19 13:44	7/1/19	
3-Nitroaniline	84 U	2000	84	1	07/12/19 13:44	7/1/19	
4,6-Dinitro-2-methylphenol	170 U	2000	170	1	07/12/19 13:44	7/1/19	
4-Bromophenyl Phenyl Ether	150 U	390	150	1	07/12/19 13:44	7/1/19	
4-Chloro-3-methylphenol	86 U	390	86	1	07/12/19 13:44	7/1/19	
4-Chloroaniline	93 U	390	93	1	07/12/19 13:44	7/1/19	
4-Chlorophenyl Phenyl Ether	94 U	390	94	1	07/12/19 13:44	7/1/19	
4-Nitroaniline	84 U	2000	84	1	07/12/19 13:44	7/1/19	
4-Nitrophenol	140 U	2000	140	1	07/12/19 13:44	7/1/19	
Acenaphthene	88 U	390	88	1	07/12/19 13:44	7/1/19	
Acenaphthylene	110 U	390	110	1	07/12/19 13:44	7/1/19	
Acetophenone	90 U	390	90	1	07/12/19 13:44	7/1/19	
Anthracene	110 U	390	110	1	07/12/19 13:44	7/1/19	
Atrazine	160 U	390	160	1	07/12/19 13:44	7/1/19	
Benz(a)anthracene	120 U	390	120	1	07/12/19 13:44	7/1/19	
Benzaldehyde	78 U	2000	78	1	07/12/19 13:44	7/1/19	
Benzo(a)pyrene	150 U	390	150	1	07/12/19 13:44	7/1/19	
Benzo(b)fluoranthene	140 U	390	140	1	07/12/19 13:44	7/1/19	
Benzo(g,h,i)perylene	110 U	390	110	1	07/12/19 13:44	7/1/19	
Benzo(k)fluoranthene	150 U	390	150	1	07/12/19 13:44	7/1/19	
Biphenyl	97 U	390	97	1	07/12/19 13:44	7/1/19	
2,2'-Oxybis(1-chloropropane)	160 U	390	160	1	07/12/19 13:44	7/1/19	
Bis(2-chloroethoxy)methane	110 U	390	110	1	07/12/19 13:44	7/1/19	
Bis(2-chloroethyl) Ether	110 U	390	110	1	07/12/19 13:44	7/1/19	
Bis(2-ethylhexyl) Phthalate	110 U	590	110	1	07/12/19 13:44	7/1/19	
Butyl Benzyl Phthalate	98 U	390	98	1	07/12/19 13:44	7/1/19	
Caprolactam	110 U	390	110	1	07/12/19 13:44	7/1/19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	120 U	390	120	1	07/12/19 13:44	7/1/19	
Chrysene	150 U	390	150	1	07/12/19 13:44	7/1/19	
Di-n-butyl Phthalate	120 U	390	120	1	07/12/19 13:44	7/1/19	
Di-n-octyl Phthalate	120 U	390	120	1	07/12/19 13:44	7/1/19	
Dibenz(a,h)anthracene	120 U	390	120	1	07/12/19 13:44	7/1/19	
Dibenzofuran	78 U	390	78	1	07/12/19 13:44	7/1/19	
Diethyl Phthalate	84 U	390	84	1	07/12/19 13:44	7/1/19	
Dimethyl Phthalate	88 U	390	88	1	07/12/19 13:44	7/1/19	
Fluoranthene	150 U	390	150	1	07/12/19 13:44	7/1/19	
Fluorene	91 U	390	91	1	07/12/19 13:44	7/1/19	
Hexachlorobenzene	120 U	390	120	1	07/12/19 13:44	7/1/19	
Hexachlorobutadiene	96 U	390	96	1	07/12/19 13:44	7/1/19	
Hexachlorocyclopentadiene	86 U	390	86	1	07/12/19 13:44	7/1/19	
Hexachloroethane	110 U	390	110	1	07/12/19 13:44	7/1/19	
Indeno(1,2,3-cd)pyrene	140 U	390	140	1	07/12/19 13:44	7/1/19	
Isophorone	110 U	390	110	1	07/12/19 13:44	7/1/19	
N-Nitrosodi-n-propylamine	110 U	390	110	1	07/12/19 13:44	7/1/19	
N-Nitrosodiphenylamine	270 U	390	270	1	07/12/19 13:44	7/1/19	
Naphthalene	110 U	390	110	1	07/12/19 13:44	7/1/19	
Nitrobenzene	110 U	390	110	1	07/12/19 13:44	7/1/19	
Pentachlorophenol (PCP)	140 U	2000	140	1	07/12/19 13:44	7/1/19	
Phenanthrene	120 U	390	120	1	07/12/19 13:44	7/1/19	
Phenol	93 U	390	93	1	07/12/19 13:44	7/1/19	
Pyrene	160 U	390	160	1	07/12/19 13:44	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	29	10 - 109	07/12/19 13:44	
2-Fluorobiphenyl	35	10 - 102	07/12/19 13:44	
2-Fluorophenol	41	10 - 88	07/12/19 13:44	
Nitrobenzene-d5	32	10 - 95	07/12/19 13:44	
Phenol-d6	33	10 - 145	07/12/19 13:44	
Terphenyl-d14	45	10 - 106	07/12/19 13:44	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	93 U	390	93	1	07/15/19 19:16	7/11/19	*
2,3,4,6-Tetrachlorophenol	83 U	390	83	1	07/15/19 19:16	7/11/19	*
2,4,5-Trichlorophenol	340 U	390	340	1	07/15/19 19:16	7/11/19	*
2,4,6-Trichlorophenol	70 U	390	70	1	07/15/19 19:16	7/11/19	*
2,4-Dichlorophenol	84 U	390	84	1	07/15/19 19:16	7/11/19	*
2,4-Dimethylphenol	86 U	390	86	1	07/15/19 19:16	7/11/19	*
2,4-Dinitrophenol	150 U	2000	150	1	07/15/19 19:16	7/11/19	*
2,4-Dinitrotoluene	160 U	390	160	1	07/15/19 19:16	7/11/19	*
2,6-Dinitrotoluene	120 U	390	120	1	07/15/19 19:16	7/11/19	*
2-Chloronaphthalene	95 U	390	95	1	07/15/19 19:16	7/11/19	*
2-Chlorophenol	97 U	390	97	1	07/15/19 19:16	7/11/19	*
2-Methylnaphthalene	86 U	390	86	1	07/15/19 19:16	7/11/19	*
2-Methylphenol	85 U	390	85	1	07/15/19 19:16	7/11/19	*
2-Nitroaniline	120 U	2000	120	1	07/15/19 19:16	7/11/19	*
2-Nitrophenol	120 U	390	120	1	07/15/19 19:16	7/11/19	*
3,3'-Dichlorobenzidine	83 U	390	83	1	07/15/19 19:16	7/11/19	*
3- and 4-Methylphenol Coelution	75 U	390	75	1	07/15/19 19:16	7/11/19	*
3-Nitroaniline	84 U	2000	84	1	07/15/19 19:16	7/11/19	*
4,6-Dinitro-2-methylphenol	170 U	2000	170	1	07/15/19 19:16	7/11/19	*
4-Bromophenyl Phenyl Ether	150 U	390	150	1	07/15/19 19:16	7/11/19	*
4-Chloro-3-methylphenol	86 U	390	86	1	07/15/19 19:16	7/11/19	*
4-Chloroaniline	93 U	390	93	1	07/15/19 19:16	7/11/19	*
4-Chlorophenyl Phenyl Ether	95 U	390	95	1	07/15/19 19:16	7/11/19	*
4-Nitroaniline	84 U	2000	84	1	07/15/19 19:16	7/11/19	*
4-Nitrophenol	140 U	2000	140	1	07/15/19 19:16	7/11/19	*
Acenaphthene	89 U	390	89	1	07/15/19 19:16	7/11/19	*
Acenaphthylene	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Acetophenone	90 U	390	90	1	07/15/19 19:16	7/11/19	*
Anthracene	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Atrazine	160 U	390	160	1	07/15/19 19:16	7/11/19	*
Benz(a)anthracene	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Benzaldehyde	78 U	2000	78	1	07/15/19 19:16	7/11/19	*
Benzo(a)pyrene	150 U	390	150	1	07/15/19 19:16	7/11/19	*
Benzo(b)fluoranthene	140 U	390	140	1	07/15/19 19:16	7/11/19	*
Benzo(g,h,i)perylene	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Benzo(k)fluoranthene	150 U	390	150	1	07/15/19 19:16	7/11/19	*
Biphenyl	97 U	390	97	1	07/15/19 19:16	7/11/19	*
2,2'-Oxybis(1-chloropropane)	160 U	390	160	1	07/15/19 19:16	7/11/19	*
Bis(2-chloroethoxy)methane	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Bis(2-chloroethyl) Ether	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Bis(2-ethylhexyl) Phthalate	110 U	590	110	1	07/15/19 19:16	7/11/19	*
Butyl Benzyl Phthalate	98 U	390	98	1	07/15/19 19:16	7/11/19	*
Caprolactam	110 U	390	110	1	07/15/19 19:16	7/11/19	*

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Chrysene	150 U	390	150	1	07/15/19 19:16	7/11/19	*
Di-n-butyl Phthalate	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Di-n-octyl Phthalate	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Dibenz(a,h)anthracene	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Dibenzofuran	78 U	390	78	1	07/15/19 19:16	7/11/19	*
Diethyl Phthalate	84 U	390	84	1	07/15/19 19:16	7/11/19	*
Dimethyl Phthalate	89 U	390	89	1	07/15/19 19:16	7/11/19	*
Fluoranthene	150 U	390	150	1	07/15/19 19:16	7/11/19	*
Fluorene	91 U	390	91	1	07/15/19 19:16	7/11/19	*
Hexachlorobenzene	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Hexachlorobutadiene	96 U	390	96	1	07/15/19 19:16	7/11/19	*
Hexachlorocyclopentadiene	86 U	390	86	1	07/15/19 19:16	7/11/19	*
Hexachloroethane	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Indeno(1,2,3-cd)pyrene	140 U	390	140	1	07/15/19 19:16	7/11/19	*
Isophorone	110 U	390	110	1	07/15/19 19:16	7/11/19	*
N-Nitrosodi-n-propylamine	110 U	390	110	1	07/15/19 19:16	7/11/19	*
N-Nitrosodiphenylamine	270 U	390	270	1	07/15/19 19:16	7/11/19	*
Naphthalene	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Nitrobenzene	110 U	390	110	1	07/15/19 19:16	7/11/19	*
Pentachlorophenol (PCP)	140 U	2000	140	1	07/15/19 19:16	7/11/19	*
Phenanthrene	120 U	390	120	1	07/15/19 19:16	7/11/19	*
Phenol	93 U	390	93	1	07/15/19 19:16	7/11/19	*
Pyrene	160 U	390	160	1	07/15/19 19:16	7/11/19	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	35	10 - 109	07/15/19 19:16	
2-Fluorobiphenyl	37	10 - 102	07/15/19 19:16	
2-Fluorophenol	35	10 - 88	07/15/19 19:16	
Nitrobenzene-d5	32	10 - 95	07/15/19 19:16	
Phenol-d6	36	10 - 145	07/15/19 19:16	
Terphenyl-d14	41	10 - 106	07/15/19 19:16	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
007206-25-9	9-Octadecene, (E)-	11.99	270	JN
1000295-12-7	unknown	17.69	280	JN
000123-42-2	unknown	3.34	1200	JN
158075-29-7	unknown	9.47	180	JN

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	89 U	370	89	1	07/09/19 16:34	7/1/19	
2,3,4,6-Tetrachlorophenol	78 U	370	78	1	07/09/19 16:34	7/1/19	
2,4,5-Trichlorophenol	320 U	370	320	1	07/09/19 16:34	7/1/19	
2,4,6-Trichlorophenol	66 U	370	66	1	07/09/19 16:34	7/1/19	
2,4-Dichlorophenol	79 U	370	79	1	07/09/19 16:34	7/1/19	
2,4-Dimethylphenol	82 U	370	82	1	07/09/19 16:34	7/1/19	
2,4-Dinitrophenol	140 U	1900	140	1	07/09/19 16:34	7/1/19	
2,4-Dinitrotoluene	150 U	370	150	1	07/09/19 16:34	7/1/19	
2,6-Dinitrotoluene	110 U	370	110	1	07/09/19 16:34	7/1/19	
2-Chloronaphthalene	90 U	370	90	1	07/09/19 16:34	7/1/19	
2-Chlorophenol	92 U	370	92	1	07/09/19 16:34	7/1/19	
2-Methylnaphthalene	82 U	370	82	1	07/09/19 16:34	7/1/19	
2-Methylphenol	81 U	370	81	1	07/09/19 16:34	7/1/19	
2-Nitroaniline	120 U	1900	120	1	07/09/19 16:34	7/1/19	
2-Nitrophenol	110 U	370	110	1	07/09/19 16:34	7/1/19	
3,3'-Dichlorobenzidine	78 U	370	78	1	07/09/19 16:34	7/1/19	
3- and 4-Methylphenol Coelution	72 U	370	72	1	07/09/19 16:34	7/1/19	
3-Nitroaniline	79 U	1900	79	1	07/09/19 16:34	7/1/19	
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/09/19 16:34	7/1/19	
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/09/19 16:34	7/1/19	
4-Chloro-3-methylphenol	82 U	370	82	1	07/09/19 16:34	7/1/19	
4-Chloroaniline	89 U	370	89	1	07/09/19 16:34	7/1/19	
4-Chlorophenyl Phenyl Ether	90 U	370	90	1	07/09/19 16:34	7/1/19	
4-Nitroaniline	79 U	1900	79	1	07/09/19 16:34	7/1/19	
4-Nitrophenol	130 U	1900	130	1	07/09/19 16:34	7/1/19	
Acenaphthene	84 U	370	84	1	07/09/19 16:34	7/1/19	
Acenaphthylene	99 U	370	99	1	07/09/19 16:34	7/1/19	
Acetophenone	85 U	370	85	1	07/09/19 16:34	7/1/19	
Anthracene	110 U	370	110	1	07/09/19 16:34	7/1/19	
Atrazine	150 U	370	150	1	07/09/19 16:34	7/1/19	
Benz(a)anthracene	110 U	370	110	1	07/09/19 16:34	7/1/19	
Benzaldehyde	74 U	1900	74	1	07/09/19 16:34	7/1/19	
Benzo(a)pyrene	140 U	370	140	1	07/09/19 16:34	7/1/19	
Benzo(b)fluoranthene	130 U	370	130	1	07/09/19 16:34	7/1/19	
Benzo(g,h,i)perylene	99 U	370	99	1	07/09/19 16:34	7/1/19	
Benzo(k)fluoranthene	140 U	370	140	1	07/09/19 16:34	7/1/19	
Biphenyl	92 U	370	92	1	07/09/19 16:34	7/1/19	
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/09/19 16:34	7/1/19	
Bis(2-chloroethoxy)methane	100 U	370	100	1	07/09/19 16:34	7/1/19	
Bis(2-chloroethyl) Ether	98 U	370	98	1	07/09/19 16:34	7/1/19	
Bis(2-ethylhexyl) Phthalate	100 U	560	100	1	07/09/19 16:34	7/1/19	
Butyl Benzyl Phthalate	93 U	370	93	1	07/09/19 16:34	7/1/19	
Caprolactam	98 U	370	98	1	07/09/19 16:34	7/1/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/09/19 16:34	7/1/19	
Chrysene	140 U	370	140	1	07/09/19 16:34	7/1/19	
Di-n-butyl Phthalate	120 U	370	120	1	07/09/19 16:34	7/1/19	
Di-n-octyl Phthalate	110 U	370	110	1	07/09/19 16:34	7/1/19	
Dibenz(a,h)anthracene	120 U	370	120	1	07/09/19 16:34	7/1/19	
Dibenzofuran	74 U	370	74	1	07/09/19 16:34	7/1/19	
Diethyl Phthalate	79 U	370	79	1	07/09/19 16:34	7/1/19	
Dimethyl Phthalate	84 U	370	84	1	07/09/19 16:34	7/1/19	
Fluoranthene	140 U	370	140	1	07/09/19 16:34	7/1/19	
Fluorene	86 U	370	86	1	07/09/19 16:34	7/1/19	
Hexachlorobenzene	120 U	370	120	1	07/09/19 16:34	7/1/19	
Hexachlorobutadiene	91 U	370	91	1	07/09/19 16:34	7/1/19	
Hexachlorocyclopentadiene	82 U	370	82	1	07/09/19 16:34	7/1/19	
Hexachloroethane	96 U	370	96	1	07/09/19 16:34	7/1/19	
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/09/19 16:34	7/1/19	
Isophorone	110 U	370	110	1	07/09/19 16:34	7/1/19	
N-Nitrosodi-n-propylamine	100 U	370	100	1	07/09/19 16:34	7/1/19	
N-Nitrosodiphenylamine	250 U	370	250	1	07/09/19 16:34	7/1/19	
Naphthalene	96 U	370	96	1	07/09/19 16:34	7/1/19	
Nitrobenzene	96 U	370	96	1	07/09/19 16:34	7/1/19	
Pentachlorophenol (PCP)	130 U	1900	130	1	07/09/19 16:34	7/1/19	
Phenanthrene	110 U	370	110	1	07/09/19 16:34	7/1/19	
Phenol	89 U	370	89	1	07/09/19 16:34	7/1/19	
Pyrene	150 U	370	150	1	07/09/19 16:34	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	19	10 - 109	07/09/19 16:34	
2-Fluorobiphenyl	25	10 - 102	07/09/19 16:34	
2-Fluorophenol	24	10 - 88	07/09/19 16:34	
Nitrobenzene-d5	24	10 - 95	07/09/19 16:34	
Phenol-d6	27	10 - 145	07/09/19 16:34	
Terphenyl-d14	32	10 - 106	07/09/19 16:34	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.36	2300	J
000541-02-6	Cyclopentasiloxane, decamethyl-	5.31	220	JN

ALS Group USA, Corp.
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	89 U	370	89	1	07/15/19 19:46	7/11/19	*
2,3,4,6-Tetrachlorophenol	79 U	370	79	1	07/15/19 19:46	7/11/19	*
2,4,5-Trichlorophenol	320 U	370	320	1	07/15/19 19:46	7/11/19	*
2,4,6-Trichlorophenol	66 U	370	66	1	07/15/19 19:46	7/11/19	*
2,4-Dichlorophenol	80 U	370	80	1	07/15/19 19:46	7/11/19	*
2,4-Dimethylphenol	82 U	370	82	1	07/15/19 19:46	7/11/19	*
2,4-Dinitrophenol	140 U	1900	140	1	07/15/19 19:46	7/11/19	*
2,4-Dinitrotoluene	150 U	370	150	1	07/15/19 19:46	7/11/19	*
2,6-Dinitrotoluene	110 U	370	110	1	07/15/19 19:46	7/11/19	*
2-Chloronaphthalene	90 U	370	90	1	07/15/19 19:46	7/11/19	*
2-Chlorophenol	92 U	370	92	1	07/15/19 19:46	7/11/19	*
2-Methylnaphthalene	82 U	370	82	1	07/15/19 19:46	7/11/19	*
2-Methylphenol	81 U	370	81	1	07/15/19 19:46	7/11/19	*
2-Nitroaniline	120 U	1900	120	1	07/15/19 19:46	7/11/19	*
2-Nitrophenol	110 U	370	110	1	07/15/19 19:46	7/11/19	*
3,3'-Dichlorobenzidine	79 U	370	79	1	07/15/19 19:46	7/11/19	*
3- and 4-Methylphenol Coelution	72 U	370	72	1	07/15/19 19:46	7/11/19	*
3-Nitroaniline	80 U	1900	80	1	07/15/19 19:46	7/11/19	*
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/15/19 19:46	7/11/19	*
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/15/19 19:46	7/11/19	*
4-Chloro-3-methylphenol	82 U	370	82	1	07/15/19 19:46	7/11/19	*
4-Chloroaniline	89 U	370	89	1	07/15/19 19:46	7/11/19	*
4-Chlorophenyl Phenyl Ether	90 U	370	90	1	07/15/19 19:46	7/11/19	*
4-Nitroaniline	80 U	1900	80	1	07/15/19 19:46	7/11/19	*
4-Nitrophenol	130 U	1900	130	1	07/15/19 19:46	7/11/19	*
Acenaphthene	84 U	370	84	1	07/15/19 19:46	7/11/19	*
Acenaphthylene	99 U	370	99	1	07/15/19 19:46	7/11/19	*
Acetophenone	86 U	370	86	1	07/15/19 19:46	7/11/19	*
Anthracene	110 U	370	110	1	07/15/19 19:46	7/11/19	*
Atrazine	150 U	370	150	1	07/15/19 19:46	7/11/19	*
Benz(a)anthracene	110 U	370	110	1	07/15/19 19:46	7/11/19	*
Benzaldehyde	74 U	1900	74	1	07/15/19 19:46	7/11/19	*
Benzo(a)pyrene	140 U	370	140	1	07/15/19 19:46	7/11/19	*
Benzo(b)fluoranthene	130 U	370	130	1	07/15/19 19:46	7/11/19	*
Benzo(g,h,i)perylene	99 U	370	99	1	07/15/19 19:46	7/11/19	*
Benzo(k)fluoranthene	140 U	370	140	1	07/15/19 19:46	7/11/19	*
Biphenyl	92 U	370	92	1	07/15/19 19:46	7/11/19	*
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/15/19 19:46	7/11/19	*
Bis(2-chloroethoxy)methane	100 U	370	100	1	07/15/19 19:46	7/11/19	*
Bis(2-chloroethyl) Ether	98 U	370	98	1	07/15/19 19:46	7/11/19	*
Bis(2-ethylhexyl) Phthalate	100 U	570	100	1	07/15/19 19:46	7/11/19	*
Butyl Benzyl Phthalate	93 U	370	93	1	07/15/19 19:46	7/11/19	*
Caprolactam	98 U	370	98	1	07/15/19 19:46	7/11/19	*

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/15/19 19:46	7/11/19	*
Chrysene	140 U	370	140	1	07/15/19 19:46	7/11/19	*
Di-n-butyl Phthalate	120 U	370	120	1	07/15/19 19:46	7/11/19	*
Di-n-octyl Phthalate	110 U	370	110	1	07/15/19 19:46	7/11/19	*
Dibenz(a,h)anthracene	120 U	370	120	1	07/15/19 19:46	7/11/19	*
Dibenzofuran	74 U	370	74	1	07/15/19 19:46	7/11/19	*
Diethyl Phthalate	80 U	370	80	1	07/15/19 19:46	7/11/19	*
Dimethyl Phthalate	84 U	370	84	1	07/15/19 19:46	7/11/19	*
Fluoranthene	140 U	370	140	1	07/15/19 19:46	7/11/19	*
Fluorene	87 U	370	87	1	07/15/19 19:46	7/11/19	*
Hexachlorobenzene	120 U	370	120	1	07/15/19 19:46	7/11/19	*
Hexachlorobutadiene	91 U	370	91	1	07/15/19 19:46	7/11/19	*
Hexachlorocyclopentadiene	82 U	370	82	1	07/15/19 19:46	7/11/19	*
Hexachloroethane	97 U	370	97	1	07/15/19 19:46	7/11/19	*
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/15/19 19:46	7/11/19	*
Isophorone	110 U	370	110	1	07/15/19 19:46	7/11/19	*
N-Nitrosodi-n-propylamine	100 U	370	100	1	07/15/19 19:46	7/11/19	*
N-Nitrosodiphenylamine	250 U	370	250	1	07/15/19 19:46	7/11/19	*
Naphthalene	97 U	370	97	1	07/15/19 19:46	7/11/19	*
Nitrobenzene	97 U	370	97	1	07/15/19 19:46	7/11/19	*
Pentachlorophenol (PCP)	130 U	1900	130	1	07/15/19 19:46	7/11/19	*
Phenanthrene	110 U	370	110	1	07/15/19 19:46	7/11/19	*
Phenol	89 U	370	89	1	07/15/19 19:46	7/11/19	*
Pyrene	150 U	370	150	1	07/15/19 19:46	7/11/19	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	32	10 - 109	07/15/19 19:46	
2-Fluorobiphenyl	36	10 - 102	07/15/19 19:46	
2-Fluorophenol	34	10 - 88	07/15/19 19:46	
Nitrobenzene-d5	33	10 - 95	07/15/19 19:46	
Phenol-d6	34	10 - 145	07/15/19 19:46	
Terphenyl-d14	45	10 - 106	07/15/19 19:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000123-42-2	unknown	3.32	3600	JN

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	88 U	370	88	1	07/09/19 17:05	7/1/19	
2,3,4,6-Tetrachlorophenol	78 U	370	78	1	07/09/19 17:05	7/1/19	
2,4,5-Trichlorophenol	320 U	370	320	1	07/09/19 17:05	7/1/19	
2,4,6-Trichlorophenol	66 U	370	66	1	07/09/19 17:05	7/1/19	
2,4-Dichlorophenol	79 U	370	79	1	07/09/19 17:05	7/1/19	
2,4-Dimethylphenol	82 U	370	82	1	07/09/19 17:05	7/1/19	
2,4-Dinitrophenol	140 U	1900	140	1	07/09/19 17:05	7/1/19	
2,4-Dinitrotoluene	150 U	370	150	1	07/09/19 17:05	7/1/19	
2,6-Dinitrotoluene	110 U	370	110	1	07/09/19 17:05	7/1/19	
2-Chloronaphthalene	89 U	370	89	1	07/09/19 17:05	7/1/19	
2-Chlorophenol	92 U	370	92	1	07/09/19 17:05	7/1/19	
2-Methylnaphthalene	82 U	370	82	1	07/09/19 17:05	7/1/19	
2-Methylphenol	80 U	370	80	1	07/09/19 17:05	7/1/19	
2-Nitroaniline	120 U	1900	120	1	07/09/19 17:05	7/1/19	
2-Nitrophenol	110 U	370	110	1	07/09/19 17:05	7/1/19	
3,3'-Dichlorobenzidine	78 U	370	78	1	07/09/19 17:05	7/1/19	
3- and 4-Methylphenol Coelution	71 U	370	71	1	07/09/19 17:05	7/1/19	
3-Nitroaniline	79 U	1900	79	1	07/09/19 17:05	7/1/19	
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/09/19 17:05	7/1/19	
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/09/19 17:05	7/1/19	
4-Chloro-3-methylphenol	82 U	370	82	1	07/09/19 17:05	7/1/19	
4-Chloroaniline	88 U	370	88	1	07/09/19 17:05	7/1/19	
4-Chlorophenyl Phenyl Ether	89 U	370	89	1	07/09/19 17:05	7/1/19	
4-Nitroaniline	79 U	1900	79	1	07/09/19 17:05	7/1/19	
4-Nitrophenol	130 U	1900	130	1	07/09/19 17:05	7/1/19	
Acenaphthene	84 U	370	84	1	07/09/19 17:05	7/1/19	
Acenaphthylene	98 U	370	98	1	07/09/19 17:05	7/1/19	
Acetophenone	85 U	370	85	1	07/09/19 17:05	7/1/19	
Anthracene	110 U	370	110	1	07/09/19 17:05	7/1/19	
Atrazine	150 U	370	150	1	07/09/19 17:05	7/1/19	
Benz(a)anthracene	110 U	370	110	1	07/09/19 17:05	7/1/19	
Benzaldehyde	74 U	1900	74	1	07/09/19 17:05	7/1/19	
Benzo(a)pyrene	140 U	370	140	1	07/09/19 17:05	7/1/19	
Benzo(b)fluoranthene	130 U	370	130	1	07/09/19 17:05	7/1/19	
Benzo(g,h,i)perylene	98 U	370	98	1	07/09/19 17:05	7/1/19	
Benzo(k)fluoranthene	140 U	370	140	1	07/09/19 17:05	7/1/19	
Biphenyl	92 U	370	92	1	07/09/19 17:05	7/1/19	
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/09/19 17:05	7/1/19	
Bis(2-chloroethoxy)methane	100 U	370	100	1	07/09/19 17:05	7/1/19	
Bis(2-chloroethyl) Ether	97 U	370	97	1	07/09/19 17:05	7/1/19	
Bis(2-ethylhexyl) Phthalate	100 U	560	100	1	07/09/19 17:05	7/1/19	
Butyl Benzyl Phthalate	93 U	370	93	1	07/09/19 17:05	7/1/19	
Caprolactam	97 U	370	97	1	07/09/19 17:05	7/1/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/09/19 17:05	7/1/19	
Chrysene	140 U	370	140	1	07/09/19 17:05	7/1/19	
Di-n-butyl Phthalate	120 U	370	120	1	07/09/19 17:05	7/1/19	
Di-n-octyl Phthalate	110 U	370	110	1	07/09/19 17:05	7/1/19	
Dibenz(a,h)anthracene	120 U	370	120	1	07/09/19 17:05	7/1/19	
Dibenzofuran	74 U	370	74	1	07/09/19 17:05	7/1/19	
Diethyl Phthalate	79 U	370	79	1	07/09/19 17:05	7/1/19	
Dimethyl Phthalate	84 U	370	84	1	07/09/19 17:05	7/1/19	
Fluoranthene	140 U	370	140	1	07/09/19 17:05	7/1/19	
Fluorene	86 U	370	86	1	07/09/19 17:05	7/1/19	
Hexachlorobenzene	120 U	370	120	1	07/09/19 17:05	7/1/19	
Hexachlorobutadiene	91 U	370	91	1	07/09/19 17:05	7/1/19	
Hexachlorocyclopentadiene	82 U	370	82	1	07/09/19 17:05	7/1/19	
Hexachloroethane	96 U	370	96	1	07/09/19 17:05	7/1/19	
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/09/19 17:05	7/1/19	
Isophorone	110 U	370	110	1	07/09/19 17:05	7/1/19	
N-Nitrosodi-n-propylamine	100 U	370	100	1	07/09/19 17:05	7/1/19	
N-Nitrosodiphenylamine	250 U	370	250	1	07/09/19 17:05	7/1/19	
Naphthalene	96 U	370	96	1	07/09/19 17:05	7/1/19	
Nitrobenzene	96 U	370	96	1	07/09/19 17:05	7/1/19	
Pentachlorophenol (PCP)	130 U	1900	130	1	07/09/19 17:05	7/1/19	
Phenanthrene	110 U	370	110	1	07/09/19 17:05	7/1/19	
Phenol	88 U	370	88	1	07/09/19 17:05	7/1/19	
Pyrene	150 U	370	150	1	07/09/19 17:05	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	33	10 - 109	07/09/19 17:05	
2-Fluorobiphenyl	41	10 - 102	07/09/19 17:05	
2-Fluorophenol	46	10 - 88	07/09/19 17:05	
Nitrobenzene-d5	41	10 - 95	07/09/19 17:05	
Phenol-d6	45	10 - 145	07/09/19 17:05	
Terphenyl-d14	42	10 - 106	07/09/19 17:05	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	unknown	3.37	2600	J
	unknown	3.43	2800	J

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	89 U	370	89	1	07/15/19 20:15	7/11/19	*
2,3,4,6-Tetrachlorophenol	79 U	370	79	1	07/15/19 20:15	7/11/19	*
2,4,5-Trichlorophenol	320 U	370	320	1	07/15/19 20:15	7/11/19	*
2,4,6-Trichlorophenol	66 U	370	66	1	07/15/19 20:15	7/11/19	*
2,4-Dichlorophenol	80 U	370	80	1	07/15/19 20:15	7/11/19	*
2,4-Dimethylphenol	82 U	370	82	1	07/15/19 20:15	7/11/19	*
2,4-Dinitrophenol	140 U	1900	140	1	07/15/19 20:15	7/11/19	*
2,4-Dinitrotoluene	150 U	370	150	1	07/15/19 20:15	7/11/19	*
2,6-Dinitrotoluene	110 U	370	110	1	07/15/19 20:15	7/11/19	*
2-Chloronaphthalene	90 U	370	90	1	07/15/19 20:15	7/11/19	*
2-Chlorophenol	92 U	370	92	1	07/15/19 20:15	7/11/19	*
2-Methylnaphthalene	82 U	370	82	1	07/15/19 20:15	7/11/19	*
2-Methylphenol	81 U	370	81	1	07/15/19 20:15	7/11/19	*
2-Nitroaniline	120 U	1900	120	1	07/15/19 20:15	7/11/19	*
2-Nitrophenol	110 U	370	110	1	07/15/19 20:15	7/11/19	*
3,3'-Dichlorobenzidine	79 U	370	79	1	07/15/19 20:15	7/11/19	*
3- and 4-Methylphenol Coelution	72 U	370	72	1	07/15/19 20:15	7/11/19	*
3-Nitroaniline	80 U	1900	80	1	07/15/19 20:15	7/11/19	*
4,6-Dinitro-2-methylphenol	160 U	1900	160	1	07/15/19 20:15	7/11/19	*
4-Bromophenyl Phenyl Ether	140 U	370	140	1	07/15/19 20:15	7/11/19	*
4-Chloro-3-methylphenol	82 U	370	82	1	07/15/19 20:15	7/11/19	*
4-Chloroaniline	89 U	370	89	1	07/15/19 20:15	7/11/19	*
4-Chlorophenyl Phenyl Ether	90 U	370	90	1	07/15/19 20:15	7/11/19	*
4-Nitroaniline	80 U	1900	80	1	07/15/19 20:15	7/11/19	*
4-Nitrophenol	130 U	1900	130	1	07/15/19 20:15	7/11/19	*
Acenaphthene	84 U	370	84	1	07/15/19 20:15	7/11/19	*
Acenaphthylene	99 U	370	99	1	07/15/19 20:15	7/11/19	*
Acetophenone	85 U	370	85	1	07/15/19 20:15	7/11/19	*
Anthracene	110 U	370	110	1	07/15/19 20:15	7/11/19	*
Atrazine	150 U	370	150	1	07/15/19 20:15	7/11/19	*
Benz(a)anthracene	110 U	370	110	1	07/15/19 20:15	7/11/19	*
Benzaldehyde	74 U	1900	74	1	07/15/19 20:15	7/11/19	*
Benzo(a)pyrene	140 U	370	140	1	07/15/19 20:15	7/11/19	*
Benzo(b)fluoranthene	130 U	370	130	1	07/15/19 20:15	7/11/19	*
Benzo(g,h,i)perylene	99 U	370	99	1	07/15/19 20:15	7/11/19	*
Benzo(k)fluoranthene	140 U	370	140	1	07/15/19 20:15	7/11/19	*
Biphenyl	92 U	370	92	1	07/15/19 20:15	7/11/19	*
2,2'-Oxybis(1-chloropropane)	150 U	370	150	1	07/15/19 20:15	7/11/19	*
Bis(2-chloroethoxy)methane	100 U	370	100	1	07/15/19 20:15	7/11/19	*
Bis(2-chloroethyl) Ether	98 U	370	98	1	07/15/19 20:15	7/11/19	*
Bis(2-ethylhexyl) Phthalate	100 U	570	100	1	07/15/19 20:15	7/11/19	*
Butyl Benzyl Phthalate	93 U	370	93	1	07/15/19 20:15	7/11/19	*
Caprolactam	98 U	370	98	1	07/15/19 20:15	7/11/19	*

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	110 U	370	110	1	07/15/19 20:15	7/11/19	*
Chrysene	140 U	370	140	1	07/15/19 20:15	7/11/19	*
Di-n-butyl Phthalate	120 U	370	120	1	07/15/19 20:15	7/11/19	*
Di-n-octyl Phthalate	110 U	370	110	1	07/15/19 20:15	7/11/19	*
Dibenz(a,h)anthracene	120 U	370	120	1	07/15/19 20:15	7/11/19	*
Dibenzofuran	74 U	370	74	1	07/15/19 20:15	7/11/19	*
Diethyl Phthalate	80 U	370	80	1	07/15/19 20:15	7/11/19	*
Dimethyl Phthalate	84 U	370	84	1	07/15/19 20:15	7/11/19	*
Fluoranthene	140 U	370	140	1	07/15/19 20:15	7/11/19	*
Fluorene	87 U	370	87	1	07/15/19 20:15	7/11/19	*
Hexachlorobenzene	120 U	370	120	1	07/15/19 20:15	7/11/19	*
Hexachlorobutadiene	91 U	370	91	1	07/15/19 20:15	7/11/19	*
Hexachlorocyclopentadiene	82 U	370	82	1	07/15/19 20:15	7/11/19	*
Hexachloroethane	97 U	370	97	1	07/15/19 20:15	7/11/19	*
Indeno(1,2,3-cd)pyrene	130 U	370	130	1	07/15/19 20:15	7/11/19	*
Isophorone	110 U	370	110	1	07/15/19 20:15	7/11/19	*
N-Nitrosodi-n-propylamine	100 U	370	100	1	07/15/19 20:15	7/11/19	*
N-Nitrosodiphenylamine	250 U	370	250	1	07/15/19 20:15	7/11/19	*
Naphthalene	97 U	370	97	1	07/15/19 20:15	7/11/19	*
Nitrobenzene	97 U	370	97	1	07/15/19 20:15	7/11/19	*
Pentachlorophenol (PCP)	130 U	1900	130	1	07/15/19 20:15	7/11/19	*
Phenanthrene	110 U	370	110	1	07/15/19 20:15	7/11/19	*
Phenol	89 U	370	89	1	07/15/19 20:15	7/11/19	*
Pyrene	150 U	370	150	1	07/15/19 20:15	7/11/19	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	34	10 - 109	07/15/19 20:15	
2-Fluorobiphenyl	40	10 - 102	07/15/19 20:15	
2-Fluorophenol	38	10 - 88	07/15/19 20:15	
Nitrobenzene-d5	38	10 - 95	07/15/19 20:15	
Phenol-d6	37	10 - 145	07/15/19 20:15	
Terphenyl-d14	46	10 - 106	07/15/19 20:15	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000123-42-2	unknown	3.32	6600	JN

Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
4,4'-DDE	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
4,4'-DDT	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Aldrin	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Dieldrin	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endosulfan I	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endosulfan II	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endosulfan Sulfate	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endrin	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endrin Aldehyde	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Endrin Ketone	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Heptachlor	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Heptachlor Epoxide	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Methoxychlor	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
Toxaphene	22 U	37	22	1	07/02/19 19:20	6/26/19	
alpha-BHC	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
alpha-Chlordane	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
beta-BHC	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
delta-BHC	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
gamma-BHC (Lindane)	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	
gamma-Chlordane	0.95 U	1.9	0.95	1	07/02/19 19:20	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 145	07/02/19 19:20	
Tetrachloro-m-xylene	50	10 - 123	07/02/19 19:20	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
4,4'-DDE	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
4,4'-DDT	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Aldrin	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Dieldrin	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endosulfan I	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endosulfan II	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endosulfan Sulfate	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endrin	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endrin Aldehyde	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Endrin Ketone	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Heptachlor	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Heptachlor Epoxide	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Methoxychlor	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
Toxaphene	21 U	36	21	1	07/02/19 19:37	6/26/19	
alpha-BHC	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
alpha-Chlordane	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
beta-BHC	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
delta-BHC	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
gamma-BHC (Lindane)	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	
gamma-Chlordane	0.93 U	1.9	0.93	1	07/02/19 19:37	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 145	07/02/19 19:37	
Tetrachloro-m-xylene	61	10 - 123	07/02/19 19:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
4,4'-DDE	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
4,4'-DDT	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Aldrin	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Dieldrin	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endosulfan I	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endosulfan II	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endosulfan Sulfate	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endrin	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endrin Aldehyde	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Endrin Ketone	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Heptachlor	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Heptachlor Epoxide	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Methoxychlor	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
Toxaphene	23 U	39	23	1	07/02/19 19:55	6/26/19	
alpha-BHC	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
alpha-Chlordane	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
beta-BHC	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
delta-BHC	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
gamma-BHC (Lindane)	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	
gamma-Chlordane	1.0 U	2.0	1.0	1	07/02/19 19:55	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	47	10 - 145	07/02/19 19:55	
Tetrachloro-m-xylene	61	10 - 123	07/02/19 19:55	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
4,4'-DDE	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
4,4'-DDT	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Aldrin	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Dieldrin	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endosulfan I	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endosulfan II	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endosulfan Sulfate	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endrin	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endrin Aldehyde	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Endrin Ketone	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Heptachlor	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Heptachlor Epoxide	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Methoxychlor	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
Toxaphene	22 U	37	22	1	07/02/19 20:12	6/26/19	
alpha-BHC	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
alpha-Chlordane	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
beta-BHC	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
delta-BHC	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
gamma-BHC (Lindane)	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	
gamma-Chlordane	0.96 U	1.9	0.96	1	07/02/19 20:12	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	42	10 - 145	07/02/19 20:12	
Tetrachloro-m-xylene	55	10 - 123	07/02/19 20:12	

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dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
4,4'-DDE	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
4,4'-DDT	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Aldrin	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Dieldrin	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endosulfan I	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endosulfan II	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endosulfan Sulfate	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endrin	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endrin Aldehyde	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Endrin Ketone	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Heptachlor	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Heptachlor Epoxide	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Methoxychlor	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
Toxaphene	22 U	37	22	1	07/02/19 20:30	6/26/19	
alpha-BHC	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
alpha-Chlordane	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
beta-BHC	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
delta-BHC	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
gamma-BHC (Lindane)	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	
gamma-Chlordane	0.94 U	1.9	0.94	1	07/02/19 20:30	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	23	10 - 145	07/02/19 20:30	
Tetrachloro-m-xylene	31	10 - 123	07/02/19 20:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ug/Kg
Lab Code:	R1905686-014	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	37	20	1	06/29/19 01:04	6/26/19	
Aroclor 1221	38 U	75	38	1	06/29/19 01:04	6/26/19	
Aroclor 1232	22 U	37	22	1	06/29/19 01:04	6/26/19	
Aroclor 1242	20 U	37	20	1	06/29/19 01:04	6/26/19	
Aroclor 1248	29 U	37	29	1	06/29/19 01:04	6/26/19	
Aroclor 1254	21 U	37	21	1	06/29/19 01:04	6/26/19	
Aroclor 1260	20 U	37	20	1	06/29/19 01:04	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	22 - 128	06/29/19 01:04	
Tetrachloro-m-xylene	38	14 - 119	06/29/19 01:04	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ug/Kg
Lab Code:	R1905686-015	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	19 U	36	19	1	06/29/19 01:23	6/26/19	
Aroclor 1221	37 U	74	37	1	06/29/19 01:23	6/26/19	
Aroclor 1232	22 U	36	22	1	06/29/19 01:23	6/26/19	
Aroclor 1242	19 U	36	19	1	06/29/19 01:23	6/26/19	
Aroclor 1248	29 U	36	29	1	06/29/19 01:23	6/26/19	
Aroclor 1254	20 U	36	20	1	06/29/19 01:23	6/26/19	
Aroclor 1260	19 U	36	19	1	06/29/19 01:23	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	43	22 - 128	06/29/19 01:23	
Tetrachloro-m-xylene	40	14 - 119	06/29/19 01:23	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ug/Kg
Lab Code:	R1905686-016	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	21 U	39	21	1	06/29/19 01:43	6/26/19	
Aroclor 1221	40 U	79	40	1	06/29/19 01:43	6/26/19	
Aroclor 1232	23 U	39	23	1	06/29/19 01:43	6/26/19	
Aroclor 1242	21 U	39	21	1	06/29/19 01:43	6/26/19	
Aroclor 1248	31 U	39	31	1	06/29/19 01:43	6/26/19	
Aroclor 1254	22 U	39	22	1	06/29/19 01:43	6/26/19	
Aroclor 1260	21 U	39	21	1	06/29/19 01:43	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	44	22 - 128	06/29/19 01:43	
Tetrachloro-m-xylene	42	14 - 119	06/29/19 01:43	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ug/Kg
Lab Code:	R1905686-017	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	20 U	37	20	1	06/29/19 02:03	6/26/19	
Aroclor 1221	38 U	76	38	1	06/29/19 02:03	6/26/19	
Aroclor 1232	22 U	37	22	1	06/29/19 02:03	6/26/19	
Aroclor 1242	20 U	37	20	1	06/29/19 02:03	6/26/19	
Aroclor 1248	30 U	37	30	1	06/29/19 02:03	6/26/19	
Aroclor 1254	21 U	37	21	1	06/29/19 02:03	6/26/19	
Aroclor 1260	20 U	37	20	1	06/29/19 02:03	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	43	22 - 128	06/29/19 02:03	
Tetrachloro-m-xylene	41	14 - 119	06/29/19 02:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ug/Kg
Lab Code:	R1905686-018	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	19 U	37	19	1	06/29/19 02:23	6/26/19	
Aroclor 1221	37 U	74	37	1	06/29/19 02:23	6/26/19	
Aroclor 1232	22 U	37	22	1	06/29/19 02:23	6/26/19	
Aroclor 1242	19 U	37	19	1	06/29/19 02:23	6/26/19	
Aroclor 1248	29 U	37	29	1	06/29/19 02:23	6/26/19	
Aroclor 1254	20 U	37	20	1	06/29/19 02:23	6/26/19	
Aroclor 1260	19 U	37	19	1	06/29/19 02:23	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	26	22 - 128	06/29/19 02:23	
Tetrachloro-m-xylene	25	14 - 119	06/29/19 02:23	

Metals

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METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Inc.
Project No.: R1905686
Project Name:
Matrix: SOIL

Service Request: Area 1
Date Collected: 6/19/2019
Date Received: 6/19/2019
Units: mg/Kg
Basis:

Sample Name: Area 1 **Lab Code:** R1905686-014

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	22.0	13.2	1.0	5440		
Antimony	6010C	6.6	0.595	1.0	6.6	U	
Arsenic	6010C	1.1	0.771	1.0	8.4		N*
Barium	6010C	2.2	1.1	1.0	60.4		
Beryllium	6010C	0.330	0.032	1.0	0.297	J	
Cadmium	6010C	0.551	0.080	1.0	0.176	J	
Mercury	7471B	0.035	0.006	1.0	0.035	U	
Calcium	6010C	110	35.3	1.0	13600		*
Chromium	6010C	1.1	0.386	1.0	6.9		
Cobalt	6010C	5.5	0.209	1.0	5.2	J	
Copper	6010C	2.2	0.694	1.0	11.9		
Iron	6010C	220	143	10.0	16500		
Lead	6010C	5.5	0.441	1.0	10.2		
Magnesium	6010C	110	14.3	1.0	2690		
Manganese	6010C	2.2	1.7	1.0	432		*E
Nickel	6010C	4.4	0.727	1.0	9.7		
Potassium	6010C	220	10.6	1.0	787		
Selenium	6010C	1.1	0.595	1.0	1.1	U	
Silver	6010C	1.1	0.078	1.0	1.1	U	
Sodium	6010C	110	57.3	1.0	110	U	
Thallium	6010C	1.1	0.716	1.0	1.1	U	
Vanadium	6010C	5.5	0.782	1.0	9.0		
Zinc	6010C	2.2	1.5	1.0	37.6		

% Solids: 89.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Inc.
Project No.: R1905686
Project Name:
Matrix: SOIL

Service Request: Area 1
Date Collected: 6/19/2019
Date Received: 6/19/2019
Units: mg/Kg
Basis:

Sample Name: Area 2 **Lab Code:** R1905686-015

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.6	13.0	1.0	5780		
Antimony	6010C	6.5	0.584	1.0	6.5	U	
Arsenic	6010C	1.1	0.757	1.0	9.7		N*
Barium	6010C	2.2	1.1	1.0	63.9		
Beryllium	6010C	0.324	0.031	1.0	0.303	J	
Cadmium	6010C	0.540	0.079	1.0	0.205	J	
Mercury	7471B	0.034	0.006	1.0	0.034	U	
Calcium	6010C	108	34.6	1.0	8070		*
Chromium	6010C	1.1	0.378	1.0	7.2		
Cobalt	6010C	5.4	0.205	1.0	5.9		
Copper	6010C	2.2	0.681	1.0	14.9		
Iron	6010C	216	141	10.0	17700		
Lead	6010C	5.4	0.432	1.0	13.1		
Magnesium	6010C	108	14.1	1.0	2630		
Manganese	6010C	2.2	1.6	1.0	533		*E
Nickel	6010C	4.3	0.713	1.0	11.5		
Potassium	6010C	216	10.4	1.0	743		
Selenium	6010C	1.1	0.584	1.0	1.1	U	
Silver	6010C	1.1	0.077	1.0	1.1	U	
Sodium	6010C	108	56.2	1.0	108	U	
Thallium	6010C	1.1	0.703	1.0	1.1	U	
Vanadium	6010C	5.4	0.767	1.0	9.0		
Zinc	6010C	2.2	1.5	1.0	39.4		

% Solids: 90.7

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Inc.
Project No.: R1905686
Project Name:
Matrix: SOIL

Service Request: Area 1
Date Collected: 6/19/2019
Date Received: 6/19/2019
Units: mg/Kg
Basis:

Sample Name: Area 3 **Lab Code:** R1905686-016

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	23.7	14.2	1.0	10100		
Antimony	6010C	7.1	0.640	1.0	7.1	U	
Arsenic	6010C	1.2	0.829	1.0	8.0		N*
Barium	6010C	2.4	1.2	1.0	58.7		
Beryllium	6010C	0.355	0.034	1.0	0.355	J	
Cadmium	6010C	0.592	0.086	1.0	0.190	J	
Mercury	7471B	0.039	0.007	1.0	0.038	J	
Calcium	6010C	118	37.9	1.0	1120		*
Chromium	6010C	1.2	0.415	1.0	11.1		
Cobalt	6010C	5.9	0.225	1.0	5.6	J	
Copper	6010C	2.4	0.746	1.0	10.0		
Iron	6010C	237	154	10.0	17700		
Lead	6010C	5.9	0.474	1.0	9.6		
Magnesium	6010C	118	15.4	1.0	2020		
Manganese	6010C	2.4	1.8	1.0	253		*E
Nickel	6010C	4.7	0.782	1.0	12.4		
Potassium	6010C	237	11.4	1.0	600		
Selenium	6010C	1.2	0.640	1.0	0.960	J	
Silver	6010C	1.2	0.084	1.0	1.2	U	
Sodium	6010C	118	61.6	1.0	118	U	
Thallium	6010C	1.2	0.770	1.0	1.2	U	
Vanadium	6010C	5.9	0.841	1.0	16.8		
Zinc	6010C	2.4	1.7	1.0	56.2		

% Solids: 84.4

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Inc.
Project No.: R1905686
Project Name:
Matrix: SOIL

Service Request: Area 1
Date Collected: 6/19/2019
Date Received: 6/19/2019
Units: mg/Kg
Basis:

Sample Name: Area 4 **Lab Code:** R1905686-017

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.4	12.8	1.0	7110		
Antimony	6010C	6.4	0.577	1.0	6.4	U	
Arsenic	6010C	1.1	0.748	1.0	10.7		N*
Barium	6010C	2.1	1.0	1.0	73.8		
Beryllium	6010C	0.321	0.031	1.0	0.363		
Cadmium	6010C	0.534	0.078	1.0	0.224	J	
Mercury	7471B	0.035	0.006	1.0	0.035	U	
Calcium	6010C	107	34.2	1.0	10300		*
Chromium	6010C	1.1	0.374	1.0	8.5		
Cobalt	6010C	5.3	0.203	1.0	6.9		
Copper	6010C	2.1	0.673	1.0	14.7		
Iron	6010C	214	139	10.0	20600		
Lead	6010C	5.3	0.427	1.0	11.2		
Magnesium	6010C	107	13.9	1.0	3160		
Manganese	6010C	2.1	1.6	1.0	583		*E
Nickel	6010C	4.3	0.705	1.0	12.7		
Potassium	6010C	214	10.3	1.0	977		
Selenium	6010C	1.1	0.577	1.0	0.684	J	
Silver	6010C	1.1	0.076	1.0	1.1	U	
Sodium	6010C	107	55.6	1.0	107	U	
Thallium	6010C	1.1	0.694	1.0	1.1	U	
Vanadium	6010C	5.3	0.759	1.0	11.8		
Zinc	6010C	2.1	1.5	1.0	58.4		

% Solids: 88.3

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Inc.
Project No.: R1905686
Project Name:
Matrix: SOIL

Service Request: Area 1
Date Collected: 6/19/2019
Date Received: 6/19/2019
Units: mg/Kg
Basis:

Sample Name: Area 5 **Lab Code:** R1905686-018

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	21.0	12.6	1.0	6510		
Antimony	6010C	6.3	0.567	1.0	6.3	U	
Arsenic	6010C	1.1	0.735	1.0	12.8		N*
Barium	6010C	2.1	1.0	1.0	64.5		
Beryllium	6010C	0.315	0.030	1.0	0.325		
Cadmium	6010C	0.525	0.077	1.0	0.199	J	
Mercury	7471B	0.034	0.006	1.0	0.006	J	
Calcium	6010C	105	33.6	1.0	9060		*
Chromium	6010C	1.1	0.367	1.0	7.7		
Cobalt	6010C	5.3	0.199	1.0	6.4		
Copper	6010C	2.1	0.661	1.0	13.7		
Iron	6010C	210	136	10.0	17700		
Lead	6010C	5.3	0.420	1.0	11.3		
Magnesium	6010C	105	13.6	1.0	3010		
Manganese	6010C	2.1	1.6	1.0	444		*E
Nickel	6010C	4.2	0.693	1.0	12.0		
Potassium	6010C	210	10.1	1.0	841		
Selenium	6010C	1.1	0.567	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	1.1	U	
Sodium	6010C	105	54.6	1.0	105	U	
Thallium	6010C	1.1	0.682	1.0	1.1	U	
Vanadium	6010C	5.3	0.745	1.0	10.4		
Zinc	6010C	2.1	1.5	1.0	47.9		

% Solids: 89.9

Comments:

General Chemistry

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-1	**Basis:**	As Received
Lab Code:	R1905686-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**87.6**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-2	**Basis:**	As Received
Lab Code:	R1905686-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.4**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1-3	**Basis:**	As Received
Lab Code:	R1905686-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**86.9**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-1	**Basis:**	As Received
Lab Code:	R1905686-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.6**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2-2	**Basis:**	As Received
Lab Code:	R1905686-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.5**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-1	**Basis:**	As Received
Lab Code:	R1905686-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**78.0**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-2	**Basis:**	As Received
Lab Code:	R1905686-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**80.1**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3-3	**Basis:**	As Received
Lab Code:	R1905686-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**83.6**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-1	**Basis:**	As Received
Lab Code:	R1905686-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.6**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4-2	**Basis:**	As Received
Lab Code:	R1905686-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.7**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-1	**Basis:**	As Received
Lab Code:	R1905686-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**90.7**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-2	**Basis:**	As Received
Lab Code:	R1905686-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.6**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5-3	**Basis:**	As Received
Lab Code:	R1905686-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**92.2**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Basis:**	As Received
Lab Code:	R1905686-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.0**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Basis:**	As Received
Lab Code:	R1905686-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**90.7**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Basis:**	As Received
Lab Code:	R1905686-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**84.4**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Basis:**	As Received
Lab Code:	R1905686-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**88.3**	Percent	-	-	1	06/28/19 06:30	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Basis:**	As Received
Lab Code:	R1905686-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Total Solids	ALS SOP	**89.9**	Percent	-	-	1	06/28/19 06:30	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene 31-154	Dibromofluoromethane 63-138	Toluene-d8 66-138
Area 1-1	R1905686-001	94	98	98
Area 1-2	R1905686-002	91	94	98
Area 1-3	R1905686-003	94	96	98
Area 2-1	R1905686-004	93	96	97
Area 2-2	R1905686-005	94	96	99
Area 3-1	R1905686-006	75	99	97
Area 3-2	R1905686-007	84	97	98
Area 3-3	R1905686-008	89	96	99
Area 4-1	R1905686-009	92	94	98
Area 4-2	R1905686-010	94	92	99
Area 5-1	R1905686-011	92	95	97
Area 5-2	R1905686-012	91	96	97
Area 5-3	R1905686-013	93	98	98
Method Blank	RQ1906256-04	95	98	99
Method Blank	RQ1906463-04	95	99	99
Lab Control Sample	RQ1906256-03	97	99	98
Lab Control Sample	RQ1906463-03	100	101	100

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906256-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,1-Dichloroethene (1,1-DCE)	0.29 U	5.0	0.29	1	06/21/19 13:47	
1,2,3-Trichlorobenzene	0.52 U	5.0	0.52	1	06/21/19 13:47	
1,2,4-Trichlorobenzene	0.42 U	5.0	0.42	1	06/21/19 13:47	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,2-Dibromo-3-chloropropane (DBCP)	0.29 U	5.0	0.29	1	06/21/19 13:47	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
1,4-Dichlorobenzene	0.22 U	5.0	0.22	1	06/21/19 13:47	
1,4-Dioxane	20 U	100	20	1	06/21/19 13:47	
2-Butanone (MEK)	2.0 U	5.0	2.0	1	06/21/19 13:47	
2-Hexanone	0.36 U	5.0	0.36	1	06/21/19 13:47	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	06/21/19 13:47	
4-Methyl-2-pentanone	0.23 U	5.0	0.23	1	06/21/19 13:47	
Acetone	4.7 U	5.0	4.7	1	06/21/19 13:47	
Benzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
Bromochloromethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
Bromoform	0.50 U	5.0	0.50	1	06/21/19 13:47	
Bromomethane	2.1 U	5.0	2.1	1	06/21/19 13:47	
Carbon Disulfide	0.29 U	5.0	0.29	1	06/21/19 13:47	
Carbon Tetrachloride	0.26 U	5.0	0.26	1	06/21/19 13:47	
Chlorobenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
Chloroethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
Chloroform	0.20 U	5.0	0.20	1	06/21/19 13:47	
Chloromethane	1.4 U	5.0	1.4	1	06/21/19 13:47	
Cyclohexane	0.26 U	5.0	0.26	1	06/21/19 13:47	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/21/19 13:47	
Dichlorodifluoromethane (CFC 12)	0.33 U	5.0	0.33	1	06/21/19 13:47	
Dichloromethane	2.8 U	5.0	2.8	1	06/21/19 13:47	
Ethylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	06/21/19 13:47	
Methyl Acetate	0.84 U	5.0	0.84	1	06/21/19 13:47	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	06/21/19 13:47	
Methylcyclohexane	0.31 U	5.0	0.31	1	06/21/19 13:47	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906256-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.55 U	5.0	0.55	1	06/21/19 13:47	
Styrene	0.20 U	5.0	0.20	1	06/21/19 13:47	
Tetrachloroethene (PCE)	0.23 U	5.0	0.23	1	06/21/19 13:47	
Toluene	0.20 U	5.0	0.20	1	06/21/19 13:47	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	06/21/19 13:47	
Trichlorofluoromethane (CFC 11)	0.26 U	5.0	0.26	1	06/21/19 13:47	
Vinyl Chloride	0.46 U	5.0	0.46	1	06/21/19 13:47	
cis-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/21/19 13:47	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/21/19 13:47	
m,p-Xylenes	0.37 U	10	0.37	1	06/21/19 13:47	
n-Butylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
n-Propylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
o-Xylene	0.20 U	5.0	0.20	1	06/21/19 13:47	
sec-Butylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
tert-Butylbenzene	0.20 U	5.0	0.20	1	06/21/19 13:47	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/21/19 13:47	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/21/19 13:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	06/21/19 13:47	
Dibromofluoromethane	98	63 - 138	06/21/19 13:47	
Toluene-d8	99	66 - 138	06/21/19 13:47	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906463-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,1-Dichloroethene (1,1-DCE)	0.29 U	5.0	0.29	1	06/24/19 11:39	
1,2,3-Trichlorobenzene	0.52 U	5.0	0.52	1	06/24/19 11:39	
1,2,4-Trichlorobenzene	0.42 U	5.0	0.42	1	06/24/19 11:39	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,2-Dibromo-3-chloropropane (DBCP)	0.29 U	5.0	0.29	1	06/24/19 11:39	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
1,4-Dichlorobenzene	0.22 U	5.0	0.22	1	06/24/19 11:39	
1,4-Dioxane	20 U	100	20	1	06/24/19 11:39	
2-Butanone (MEK)	2.0 U	5.0	2.0	1	06/24/19 11:39	
2-Hexanone	0.36 U	5.0	0.36	1	06/24/19 11:39	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	06/24/19 11:39	
4-Methyl-2-pentanone	0.23 U	5.0	0.23	1	06/24/19 11:39	
Acetone	4.7 U	5.0	4.7	1	06/24/19 11:39	
Benzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
Bromochloromethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
Bromodichloromethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
Bromoform	0.50 U	5.0	0.50	1	06/24/19 11:39	
Bromomethane	2.1 U	5.0	2.1	1	06/24/19 11:39	
Carbon Disulfide	0.29 U	5.0	0.29	1	06/24/19 11:39	
Carbon Tetrachloride	0.26 U	5.0	0.26	1	06/24/19 11:39	
Chlorobenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
Chloroethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
Chloroform	0.20 U	5.0	0.20	1	06/24/19 11:39	
Chloromethane	1.4 U	5.0	1.4	1	06/24/19 11:39	
Cyclohexane	0.26 U	5.0	0.26	1	06/24/19 11:39	
Dibromochloromethane	0.20 U	5.0	0.20	1	06/24/19 11:39	
Dichlorodifluoromethane (CFC 12)	0.33 U	5.0	0.33	1	06/24/19 11:39	
Dichloromethane	**3.3 J**	5.0	2.8	1	06/24/19 11:39	
Ethylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	06/24/19 11:39	
Methyl Acetate	0.84 U	5.0	0.84	1	06/24/19 11:39	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	06/24/19 11:39	
Methylcyclohexane	0.31 U	5.0	0.31	1	06/24/19 11:39	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906463-04	**Basis:**	Dry

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Naphthalene	0.55 U	5.0	0.55	1	06/24/19 11:39	
Styrene	0.20 U	5.0	0.20	1	06/24/19 11:39	
Tetrachloroethene (PCE)	0.23 U	5.0	0.23	1	06/24/19 11:39	
Toluene	0.20 U	5.0	0.20	1	06/24/19 11:39	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	06/24/19 11:39	
Trichlorofluoromethane (CFC 11)	0.26 U	5.0	0.26	1	06/24/19 11:39	
Vinyl Chloride	0.46 U	5.0	0.46	1	06/24/19 11:39	
cis-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/24/19 11:39	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/24/19 11:39	
m,p-Xylenes	0.37 U	10	0.37	1	06/24/19 11:39	
n-Butylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
n-Propylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
o-Xylene	0.20 U	5.0	0.20	1	06/24/19 11:39	
sec-Butylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
tert-Butylbenzene	0.20 U	5.0	0.20	1	06/24/19 11:39	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	06/24/19 11:39	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	06/24/19 11:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	31 - 154	06/24/19 11:39	
Dibromofluoromethane	99	63 - 138	06/24/19 11:39	
Toluene-d8	99	66 - 138	06/24/19 11:39	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 06/21/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1906256-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.6	20.0	88	68-123
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-121
1,1,2-Trichloroethane	8260C	18.3	20.0	91	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.5	20.0	88	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.3	20.0	91	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	17.9	20.0	90	65-115
1,2,3-Trichlorobenzene	8260C	18.2	20.0	91	60-128
1,2,4-Trichlorobenzene	8260C	17.5	20.0	88	62-130
1,2,4-Trimethylbenzene	8260C	17.2	20.0	86	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.7	20.0	94	54-135
1,2-Dibromoethane	8260C	17.7	20.0	89	77-117
1,2-Dichlorobenzene	8260C	17.1	20.0	85	75-116
1,2-Dichloroethane	8260C	18.4	20.0	92	74-116
1,2-Dichloropropane	8260C	17.9	20.0	89	79-112
1,3,5-Trimethylbenzene	8260C	17.1	20.0	85	66-122
1,3-Dichlorobenzene	8260C	17.2	20.0	86	72-118
1,4-Dichlorobenzene	8260C	17.0	20.0	85	72-117
1,4-Dioxane	8260C	368	400	92	59-147
2-Butanone (MEK)	8260C	19.0	20.0	95	67-129
2-Hexanone	8260C	18.1	20.0	90	68-118
4-Isopropyltoluene	8260C	16.5	20.0	82	58-128
4-Methyl-2-pentanone	8260C	19.2	20.0	96	64-123
Acetone	8260C	19.9	20.0	100	32-154
Benzene	8260C	17.7	20.0	88	77-114
Bromochloromethane	8260C	18.0	20.0	90	78-117
Bromodichloromethane	8260C	17.6	20.0	88	72-118
Bromoform	8260C	19.4	20.0	97	55-134
Bromomethane	8260C	17.4	20.0	87	10-150
Carbon Disulfide	8260C	16.4	20.0	82	44-139
Carbon Tetrachloride	8260C	16.4	20.0	82	51-123
Chlorobenzene	8260C	17.4	20.0	87	79-115
Chloroethane	8260C	16.0	20.0	80	10-140
Chloroform	8260C	18.4	20.0	92	76-115

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 06/21/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1906256-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.9	20.0	90	10-131
Cyclohexane	8260C	19.5	20.0	98	67-122
Dibromochloromethane	8260C	18.0	20.0	90	68-121
Dichlorodifluoromethane (CFC 12)	8260C	19.2	20.0	96	51-144
Dichloromethane	8260C	17.5	20.0	87	72-118
Ethylbenzene	8260C	17.3	20.0	87	64-118
Isopropylbenzene (Cumene)	8260C	16.7	20.0	84	60-123
Methyl Acetate	8260C	19.7	20.0	99	31-122
Methyl tert-Butyl Ether	8260C	19.1	20.0	96	76-118
Methylcyclohexane	8260C	19.1	20.0	96	70-124
Naphthalene	8260C	18.4	20.0	92	68-127
Styrene	8260C	17.8	20.0	89	74-117
Tetrachloroethene (PCE)	8260C	16.6	20.0	83	58-124
Toluene	8260C	16.9	20.0	84	72-116
Trichloroethene (TCE)	8260C	17.1	20.0	86	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.8	20.0	89	52-127
Vinyl Chloride	8260C	18.3	20.0	92	59-153
cis-1,2-Dichloroethene	8260C	18.3	20.0	92	79-113
cis-1,3-Dichloropropene	8260C	17.6	20.0	88	66-117
m,p-Xylenes	8260C	34.4	40.0	86	68-118
n-Butylbenzene	8260C	17.0	20.0	85	54-131
n-Propylbenzene	8260C	16.9	20.0	84	59-126
o-Xylene	8260C	17.3	20.0	86	71-116
sec-Butylbenzene	8260C	16.4	20.0	82	54-128
tert-Butylbenzene	8260C	16.4	20.0	82	58-123
trans-1,2-Dichloroethene	8260C	18.3	20.0	92	73-114
trans-1,3-Dichloropropene	8260C	17.9	20.0	89	57-135

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 06/24/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1906463-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.9	20.0	100	68-123
1,1,2,2-Tetrachloroethane	8260C	20.0	20.0	100	78-121
1,1,2-Trichloroethane	8260C	19.8	20.0	99	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.4	20.0	107	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.9	20.0	100	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	20.1	20.0	101	65-115
1,2,3-Trichlorobenzene	8260C	18.5	20.0	92	60-128
1,2,4-Trichlorobenzene	8260C	18.1	20.0	90	62-130
1,2,4-Trimethylbenzene	8260C	18.7	20.0	93	67-121
1,2-Dibromo-3-chloropropane (DBCP)	8260C	19.0	20.0	95	54-135
1,2-Dibromoethane	8260C	19.2	20.0	96	77-117
1,2-Dichlorobenzene	8260C	18.2	20.0	91	75-116
1,2-Dichloroethane	8260C	19.9	20.0	100	74-116
1,2-Dichloropropane	8260C	19.7	20.0	98	79-112
1,3,5-Trimethylbenzene	8260C	18.9	20.0	95	66-122
1,3-Dichlorobenzene	8260C	18.4	20.0	92	72-118
1,4-Dichlorobenzene	8260C	18.0	20.0	90	72-117
1,4-Dioxane	8260C	427	400	107	59-147
2-Butanone (MEK)	8260C	20.5	20.0	102	67-129
2-Hexanone	8260C	19.0	20.0	95	68-118
4-Isopropyltoluene	8260C	18.4	20.0	92	58-128
4-Methyl-2-pentanone	8260C	20.3	20.0	101	64-123
Acetone	8260C	21.6	20.0	108	32-154
Benzene	8260C	19.7	20.0	99	77-114
Bromochloromethane	8260C	18.8	20.0	94	78-117
Bromodichloromethane	8260C	19.4	20.0	97	72-118
Bromoform	8260C	19.7	20.0	99	55-134
Bromomethane	8260C	18.5	20.0	92	10-150
Carbon Disulfide	8260C	16.7	20.0	83	44-139
Carbon Tetrachloride	8260C	18.8	20.0	94	51-123
Chlorobenzene	8260C	18.9	20.0	95	79-115
Chloroethane	8260C	18.0	20.0	90	10-140
Chloroform	8260C	20.1	20.0	100	76-115

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 06/24/19
Sample Matrix: Soil

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

Lab Control Sample
RQ1906463-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	20.9	20.0	105	10-131
Cyclohexane	8260C	19.6	20.0	98	67-122
Dibromochloromethane	8260C	19.0	20.0	95	68-121
Dichlorodifluoromethane (CFC 12)	8260C	21.7	20.0	109	51-144
Dichloromethane	8260C	21.8	20.0	109	72-118
Ethylbenzene	8260C	18.6	20.0	93	64-118
Isopropylbenzene (Cumene)	8260C	18.9	20.0	94	60-123
Methyl Acetate	8260C	19.8	20.0	99	31-122
Methyl tert-Butyl Ether	8260C	20.4	20.0	102	76-118
Methylcyclohexane	8260C	19.4	20.0	97	70-124
Naphthalene	8260C	18.8	20.0	94	68-127
Styrene	8260C	19.3	20.0	96	74-117
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	58-124
Toluene	8260C	19.1	20.0	96	72-116
Trichloroethene (TCE)	8260C	19.2	20.0	96	69-118
Trichlorofluoromethane (CFC 11)	8260C	20.3	20.0	101	52-127
Vinyl Chloride	8260C	20.2	20.0	101	59-153
cis-1,2-Dichloroethene	8260C	20.0	20.0	100	79-113
cis-1,3-Dichloropropene	8260C	19.2	20.0	96	66-117
m,p-Xylenes	8260C	37.9	40.0	95	68-118
n-Butylbenzene	8260C	19.3	20.0	96	54-131
n-Propylbenzene	8260C	19.1	20.0	95	59-126
o-Xylene	8260C	19.2	20.0	96	71-116
sec-Butylbenzene	8260C	18.5	20.0	93	54-128
tert-Butylbenzene	8260C	18.2	20.0	91	58-123
trans-1,2-Dichloroethene	8260C	20.4	20.0	102	73-114
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	57-135

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol 10-109	2-Fluorobiphenyl 10-102	2-Fluorophenol 10-88
Area 1	R1905686-014	26	24	33
Area 1 RE	R1905686-014	40	44	44
Area 2	R1905686-015	21	28	29
Area 2 RE	R1905686-015	36	39	41
Area 3	R1905686-016	29	35	41
Area 3 RE	R1905686-016	35	37	35
Area 4	R1905686-017	19	25	24
Area 4 RE	R1905686-017	32	36	34
Area 5	R1905686-018	33	41	46
Area 5 RE	R1905686-018	34	40	38
Method Blank	RQ1906652-01	29	39	35
Method Blank	RQ1907053-01	40	45	46
Lab Control Sample	RQ1906652-02	36	38	29
Duplicate Lab Control Sample	RQ1906652-03	16	12	8*
Lab Control Sample	RQ1907053-02	66	71	65
Duplicate Lab Control Sample	RQ1907053-03	65	67	57

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5 10-95	Phenol-d6 10-145	Terphenyl-d14 10-106
Area 1	R1905686-014	28	38	26
Area 1 RE	R1905686-014	42	41	59
Area 2	R1905686-015	26	28	29
Area 2 RE	R1905686-015	38	39	46
Area 3	R1905686-016	32	33	45
Area 3 RE	R1905686-016	32	36	41
Area 4	R1905686-017	24	27	32
Area 4 RE	R1905686-017	33	34	45
Area 5	R1905686-018	41	45	42
Area 5 RE	R1905686-018	38	37	46
Method Blank	RQ1906652-01	34	36	36
Method Blank	RQ1907053-01	41	45	63
Lab Control Sample	RQ1906652-02	28	33	33
Duplicate Lab Control Sample	RQ1906652-03	8*	8*	16
Lab Control Sample	RQ1907053-02	64	62	75
Duplicate Lab Control Sample	RQ1907053-03	55	54	69

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906652-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	78 U	330	78	1	07/12/19 10:56	7/1/19	
2,3,4,6-Tetrachlorophenol	69 U	330	69	1	07/12/19 10:56	7/1/19	
2,4,5-Trichlorophenol	280 U	330	280	1	07/12/19 10:56	7/1/19	
2,4,6-Trichlorophenol	58 U	330	58	1	07/12/19 10:56	7/1/19	
2,4-Dichlorophenol	70 U	330	70	1	07/12/19 10:56	7/1/19	
2,4-Dimethylphenol	72 U	330	72	1	07/12/19 10:56	7/1/19	
2,4-Dinitrophenol	120 U	1700	120	1	07/12/19 10:56	7/1/19	
2,4-Dinitrotoluene	130 U	330	130	1	07/12/19 10:56	7/1/19	
2,6-Dinitrotoluene	96 U	330	96	1	07/12/19 10:56	7/1/19	
2-Chloronaphthalene	79 U	330	79	1	07/12/19 10:56	7/1/19	
2-Chlorophenol	81 U	330	81	1	07/12/19 10:56	7/1/19	
2-Methylnaphthalene	72 U	330	72	1	07/12/19 10:56	7/1/19	
2-Methylphenol	71 U	330	71	1	07/12/19 10:56	7/1/19	
2-Nitroaniline	98 U	1700	98	1	07/12/19 10:56	7/1/19	
2-Nitrophenol	95 U	330	95	1	07/12/19 10:56	7/1/19	
3,3'-Dichlorobenzidine	69 U	330	69	1	07/12/19 10:56	7/1/19	
3- and 4-Methylphenol Coelution	63 U	330	63	1	07/12/19 10:56	7/1/19	
3-Nitroaniline	70 U	1700	70	1	07/12/19 10:56	7/1/19	
4,6-Dinitro-2-methylphenol	140 U	1700	140	1	07/12/19 10:56	7/1/19	
4-Bromophenyl Phenyl Ether	120 U	330	120	1	07/12/19 10:56	7/1/19	
4-Chloro-3-methylphenol	72 U	330	72	1	07/12/19 10:56	7/1/19	
4-Chloroaniline	78 U	330	78	1	07/12/19 10:56	7/1/19	
4-Chlorophenyl Phenyl Ether	79 U	330	79	1	07/12/19 10:56	7/1/19	
4-Nitroaniline	70 U	1700	70	1	07/12/19 10:56	7/1/19	
4-Nitrophenol	110 U	1700	110	1	07/12/19 10:56	7/1/19	
Acenaphthene	74 U	330	74	1	07/12/19 10:56	7/1/19	
Acenaphthylene	87 U	330	87	1	07/12/19 10:56	7/1/19	
Acetophenone	75 U	330	75	1	07/12/19 10:56	7/1/19	
Anthracene	92 U	330	92	1	07/12/19 10:56	7/1/19	
Atrazine	130 U	330	130	1	07/12/19 10:56	7/1/19	
Benz(a)anthracene	97 U	330	97	1	07/12/19 10:56	7/1/19	
Benzaldehyde	65 U	1700	65	1	07/12/19 10:56	7/1/19	
Benzo(a)pyrene	120 U	330	120	1	07/12/19 10:56	7/1/19	
Benzo(b)fluoranthene	110 U	330	110	1	07/12/19 10:56	7/1/19	
Benzo(g,h,i)perylene	87 U	330	87	1	07/12/19 10:56	7/1/19	
Benzo(k)fluoranthene	120 U	330	120	1	07/12/19 10:56	7/1/19	
Biphenyl	81 U	330	81	1	07/12/19 10:56	7/1/19	
2,2'-Oxybis(1-chloropropane)	130 U	330	130	1	07/12/19 10:56	7/1/19	
Bis(2-chloroethoxy)methane	88 U	330	88	1	07/12/19 10:56	7/1/19	
Bis(2-chloroethyl) Ether	86 U	330	86	1	07/12/19 10:56	7/1/19	
Bis(2-ethylhexyl) Phthalate	88 U	500	88	1	07/12/19 10:56	7/1/19	
Butyl Benzyl Phthalate	82 U	330	82	1	07/12/19 10:56	7/1/19	
Caprolactam	86 U	330	86	1	07/12/19 10:56	7/1/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906652-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	95 U	330	95	1	07/12/19 10:56	7/1/19	
Chrysene	120 U	330	120	1	07/12/19 10:56	7/1/19	
Di-n-butyl Phthalate	100 U	330	100	1	07/12/19 10:56	7/1/19	
Di-n-octyl Phthalate	97 U	330	97	1	07/12/19 10:56	7/1/19	
Dibenz(a,h)anthracene	98 U	330	98	1	07/12/19 10:56	7/1/19	
Dibenzofuran	65 U	330	65	1	07/12/19 10:56	7/1/19	
Diethyl Phthalate	70 U	330	70	1	07/12/19 10:56	7/1/19	
Dimethyl Phthalate	74 U	330	74	1	07/12/19 10:56	7/1/19	
Fluoranthene	120 U	330	120	1	07/12/19 10:56	7/1/19	
Fluorene	76 U	330	76	1	07/12/19 10:56	7/1/19	
Hexachlorobenzene	100 U	330	100	1	07/12/19 10:56	7/1/19	
Hexachlorobutadiene	80 U	330	80	1	07/12/19 10:56	7/1/19	
Hexachlorocyclopentadiene	72 U	330	72	1	07/12/19 10:56	7/1/19	
Hexachloroethane	85 U	330	85	1	07/12/19 10:56	7/1/19	
Indeno(1,2,3-cd)pyrene	110 U	330	110	1	07/12/19 10:56	7/1/19	
Isophorone	90 U	330	90	1	07/12/19 10:56	7/1/19	
N-Nitrosodi-n-propylamine	88 U	330	88	1	07/12/19 10:56	7/1/19	
N-Nitrosodiphenylamine	220 U	330	220	1	07/12/19 10:56	7/1/19	
Naphthalene	85 U	330	85	1	07/12/19 10:56	7/1/19	
Nitrobenzene	85 U	330	85	1	07/12/19 10:56	7/1/19	
Pentachlorophenol (PCP)	110 U	1700	110	1	07/12/19 10:56	7/1/19	
Phenanthrene	96 U	330	96	1	07/12/19 10:56	7/1/19	
Phenol	78 U	330	78	1	07/12/19 10:56	7/1/19	
Pyrene	130 U	330	130	1	07/12/19 10:56	7/1/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	29	10 - 109	07/12/19 10:56	
2-Fluorobiphenyl	39	10 - 102	07/12/19 10:56	
2-Fluorophenol	35	10 - 88	07/12/19 10:56	
Nitrobenzene-d5	34	10 - 95	07/12/19 10:56	
Phenol-d6	36	10 - 145	07/12/19 10:56	
Terphenyl-d14	36	10 - 106	07/12/19 10:56	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1907053-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	79 U	330	79	1	07/15/19 16:45	7/11/19	
2,3,4,6-Tetrachlorophenol	70 U	330	70	1	07/15/19 16:45	7/11/19	
2,4,5-Trichlorophenol	290 U	330	290	1	07/15/19 16:45	7/11/19	
2,4,6-Trichlorophenol	59 U	330	59	1	07/15/19 16:45	7/11/19	
2,4-Dichlorophenol	71 U	330	71	1	07/15/19 16:45	7/11/19	
2,4-Dimethylphenol	73 U	330	73	1	07/15/19 16:45	7/11/19	
2,4-Dinitrophenol	130 U	1700	130	1	07/15/19 16:45	7/11/19	
2,4-Dinitrotoluene	140 U	330	140	1	07/15/19 16:45	7/11/19	
2,6-Dinitrotoluene	97 U	330	97	1	07/15/19 16:45	7/11/19	
2-Chloronaphthalene	80 U	330	80	1	07/15/19 16:45	7/11/19	
2-Chlorophenol	82 U	330	82	1	07/15/19 16:45	7/11/19	
2-Methylnaphthalene	73 U	330	73	1	07/15/19 16:45	7/11/19	
2-Methylphenol	72 U	330	72	1	07/15/19 16:45	7/11/19	
2-Nitroaniline	99 U	1700	99	1	07/15/19 16:45	7/11/19	
2-Nitrophenol	96 U	330	96	1	07/15/19 16:45	7/11/19	
3,3'-Dichlorobenzidine	70 U	330	70	1	07/15/19 16:45	7/11/19	
3- and 4-Methylphenol Coelution	64 U	330	64	1	07/15/19 16:45	7/11/19	
3-Nitroaniline	71 U	1700	71	1	07/15/19 16:45	7/11/19	
4,6-Dinitro-2-methylphenol	150 U	1700	150	1	07/15/19 16:45	7/11/19	
4-Bromophenyl Phenyl Ether	130 U	330	130	1	07/15/19 16:45	7/11/19	
4-Chloro-3-methylphenol	73 U	330	73	1	07/15/19 16:45	7/11/19	
4-Chloroaniline	79 U	330	79	1	07/15/19 16:45	7/11/19	
4-Chlorophenyl Phenyl Ether	80 U	330	80	1	07/15/19 16:45	7/11/19	
4-Nitroaniline	71 U	1700	71	1	07/15/19 16:45	7/11/19	
4-Nitrophenol	120 U	1700	120	1	07/15/19 16:45	7/11/19	
Acenaphthene	75 U	330	75	1	07/15/19 16:45	7/11/19	
Acenaphthylene	88 U	330	88	1	07/15/19 16:45	7/11/19	
Acetophenone	76 U	330	76	1	07/15/19 16:45	7/11/19	
Anthracene	93 U	330	93	1	07/15/19 16:45	7/11/19	
Atrazine	140 U	330	140	1	07/15/19 16:45	7/11/19	
Benz(a)anthracene	98 U	330	98	1	07/15/19 16:45	7/11/19	
Benzaldehyde	66 U	1700	66	1	07/15/19 16:45	7/11/19	
Benzo(a)pyrene	130 U	330	130	1	07/15/19 16:45	7/11/19	
Benzo(b)fluoranthene	120 U	330	120	1	07/15/19 16:45	7/11/19	
Benzo(g,h,i)perylene	88 U	330	88	1	07/15/19 16:45	7/11/19	
Benzo(k)fluoranthene	130 U	330	130	1	07/15/19 16:45	7/11/19	
Biphenyl	82 U	330	82	1	07/15/19 16:45	7/11/19	
2,2'-Oxybis(1-chloropropane)	140 U	330	140	1	07/15/19 16:45	7/11/19	
Bis(2-chloroethoxy)methane	89 U	330	89	1	07/15/19 16:45	7/11/19	
Bis(2-chloroethyl) Ether	87 U	330	87	1	07/15/19 16:45	7/11/19	
Bis(2-ethylhexyl) Phthalate	89 U	500	89	1	07/15/19 16:45	7/11/19	
Butyl Benzyl Phthalate	83 U	330	83	1	07/15/19 16:45	7/11/19	
Caprolactam	87 U	330	87	1	07/15/19 16:45	7/11/19	

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1907053-01	**Basis:**	Dry

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	96 U	330	96	1	07/15/19 16:45	7/11/19	
Chrysene	130 U	330	130	1	07/15/19 16:45	7/11/19	
Di-n-butyl Phthalate	110 U	330	110	1	07/15/19 16:45	7/11/19	
Di-n-octyl Phthalate	98 U	330	98	1	07/15/19 16:45	7/11/19	
Dibenz(a,h)anthracene	99 U	330	99	1	07/15/19 16:45	7/11/19	
Dibenzofuran	66 U	330	66	1	07/15/19 16:45	7/11/19	
Diethyl Phthalate	71 U	330	71	1	07/15/19 16:45	7/11/19	
Dimethyl Phthalate	75 U	330	75	1	07/15/19 16:45	7/11/19	
Fluoranthene	130 U	330	130	1	07/15/19 16:45	7/11/19	
Fluorene	77 U	330	77	1	07/15/19 16:45	7/11/19	
Hexachlorobenzene	110 U	330	110	1	07/15/19 16:45	7/11/19	
Hexachlorobutadiene	81 U	330	81	1	07/15/19 16:45	7/11/19	
Hexachlorocyclopentadiene	73 U	330	73	1	07/15/19 16:45	7/11/19	
Hexachloroethane	86 U	330	86	1	07/15/19 16:45	7/11/19	
Indeno(1,2,3-cd)pyrene	120 U	330	120	1	07/15/19 16:45	7/11/19	
Isophorone	91 U	330	91	1	07/15/19 16:45	7/11/19	
N-Nitrosodi-n-propylamine	89 U	330	89	1	07/15/19 16:45	7/11/19	
N-Nitrosodiphenylamine	230 U	330	230	1	07/15/19 16:45	7/11/19	
Naphthalene	86 U	330	86	1	07/15/19 16:45	7/11/19	
Nitrobenzene	86 U	330	86	1	07/15/19 16:45	7/11/19	
Pentachlorophenol (PCP)	120 U	1700	120	1	07/15/19 16:45	7/11/19	
Phenanthrene	97 U	330	97	1	07/15/19 16:45	7/11/19	
Phenol	79 U	330	79	1	07/15/19 16:45	7/11/19	
Pyrene	140 U	330	140	1	07/15/19 16:45	7/11/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	40	10 - 109	07/15/19 16:45	
2-Fluorobiphenyl	45	10 - 102	07/15/19 16:45	
2-Fluorophenol	46	10 - 88	07/15/19 16:45	
Nitrobenzene-d5	41	10 - 95	07/15/19 16:45	
Phenol-d6	45	10 - 145	07/15/19 16:45	
Terphenyl-d14	63	10 - 106	07/15/19 16:45	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/Kg	Q
000763-93-9	3-Hexen-2-one	2.98	270	JN
000123-42-2	unknown	3.33	38000	JN
073583-56-9	unknown	5.42	260	JN

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QA/QC Report

Client: Day Environmental, Inc.
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

Service Request: R1905686
Date Analyzed: 07/12/19

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1906652-02			RQ1906652-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	600	1670	36	174 J	1670	10	10-115	113*	30
2,3,4,6-Tetrachlorophenol	8270D	649	1660	39	231 J	1660	14 *	29-100	94*	30
2,4,5-Trichlorophenol	8270D	703	1660	42	280 U	1660	0 *	29-97	200*	30
2,4,6-Trichlorophenol	8270D	673	1660	41	212 J	1660	13 *	26-97	104*	30
2,4-Dichlorophenol	8270D	592	1660	36	165 J	1660	10 *	25-90	113*	30
2,4-Dimethylphenol	8270D	653	1660	39	161 J	1660	10 *	26-89	118*	30
2,4-Dinitrophenol	8270D	378 J	1660	23	120 U	1660	0 *	10-128	200*	30
2,4-Dinitrotoluene	8270D	642	1660	39	301 J	1660	18 *	30-111	74*	30
2,6-Dinitrotoluene	8270D	870	1660	52	296 J	1660	18 *	28-105	97*	30
2-Chloronaphthalene	8270D	605	1660	36	164 J	1660	10 *	21-88	113*	30
2-Chlorophenol	8270D	546	1660	33	130 J	1660	8 *	18-87	122*	30
2-Methylnaphthalene	8270D	503	1660	30	129 J	1660	8 *	21-83	116*	30
2-Methylphenol	8270D	595	1660	36	150 J	1660	9 *	22-86	120*	30
2-Nitroaniline	8270D	803 J	1660	48	287 J	1660	17 *	27-105	95*	30
2-Nitrophenol	8270D	523	1660	32	108 J	1660	6 *	20-88	137*	30
3- and 4-Methylphenol Coelution	8270D	589	1660	35	135 J	1660	8 *	27-92	126*	30
3-Nitroaniline	8270D	693 J	1660	42	279 J	1660	17 *	27-98	85*	30
4,6-Dinitro-2-methylphenol	8270D	488 J	1660	29	147 J	1660	9 *	11-96	105*	30
4-Bromophenyl Phenyl Ether	8270D	721	1660	43	250 J	1660	15 *	25-96	97*	30
4-Chloro-3-methylphenol	8270D	667	1660	40	225 J	1660	14 *	29-92	96*	30
4-Chloroaniline	8270D	441	1660	27	146 J	1660	9 *	21-72	100*	30
4-Chlorophenyl Phenyl Ether	8270D	685	1660	41	242 J	1660	15 *	25-92	93*	30
4-Nitroaniline	8270D	821 J	1660	49	293 J	1660	18 *	27-102	93*	30
4-Nitrophenol	8270D	723 J	1660	44	238 J	1660	14	10-130	103*	30
Acenaphthene	8270D	603	1660	36	211 J	1660	13 *	25-92	94*	30
Acenaphthylene	8270D	629	1660	38	191 J	1660	11 *	27-93	110*	30
Acetophenone	8270D	966	3320	29	229 J	3330	7 *	23-87	122*	30
Anthracene	8270D	715	1660	43	291 J	1660	18 *	32-106	82*	30
Benz(a)anthracene	8270D	677	1660	41	300 J	1660	18 *	33-109	78*	30
Benzo(a)pyrene	8270D	730	1660	44	304 J	1660	18 *	34-115	84*	30
Benzo(b)fluoranthene	8270D	626	1660	38	273 J	1660	16 *	31-107	81*	30
Benzo(g,h,i)perylene	8270D	852	1660	51	355	1660	21 *	30-127	83*	30
Benzo(k)fluoranthene	8270D	731	1660	44	309 J	1660	19 *	34-111	79*	30

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 07/12/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1906652-02			RQ1906652-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	608	1660	37	175 J	1660	11 *	26-88	108*	30
2,2'-Oxybis(1-chloropropane)	8270D	453	1660	27	130 U	1660	0 *	10-82	200*	30
Bis(2-chloroethoxy)methane	8270D	516	1660	31	148 J	1660	9 *	17-85	110*	30
Bis(2-chloroethyl) Ether	8270D	458	1660	28	120 J	1660	7 *	10-79	120*	30
Bis(2-ethylhexyl) Phthalate	8270D	806	1660	49	349 J	1660	21 *	31-115	NC	30
Butyl Benzyl Phthalate	8270D	708	1660	43	328 J	1660	20 *	31-115	73*	30
Caprolactam	8270D	752	1660	45	266 J	1660	16 *	28-99	95*	30
Carbazole	8270D	853	1660	51	330	1660	20 *	23-129	87*	30
Chrysene	8270D	683	1660	41	297 J	1660	18 *	34-108	78*	30
Di-n-butyl Phthalate	8270D	832	1660	50	345	1660	21 *	33-114	82*	30
Di-n-octyl Phthalate	8270D	784	1660	47	322 J	1660	19 *	32-116	85*	30
Dibenz(a,h)anthracene	8270D	533	1660	32	212 J	1660	13 *	23-122	84*	30
Dibenzofuran	8270D	669	1660	40	236 J	1660	14 *	27-94	96*	30
Diethyl Phthalate	8270D	646	1660	39	275 J	1660	17 *	26-101	79*	30
Dimethyl Phthalate	8270D	806	1660	49	285 J	1660	17 *	27-98	97*	30
Fluoranthene	8270D	751	1660	45	321 J	1660	19 *	34-111	81*	30
Fluorene	8270D	685	1660	41	239 J	1660	14 *	27-95	98*	30
Hexachlorobenzene	8270D	744	1660	45	277 J	1660	17 *	30-104	90*	30
Hexachlorobutadiene	8270D	489	1660	29	117 J	1660	7 *	10-142	122*	30
Hexachlorocyclopentadiene	8270D	72 U	1660	0 *	87.7 J	1660	5 *	10-133	NC	30
Hexachloroethane	8270D	424	1660	26	112 J	1660	7 *	10-129	115*	30
Indeno(1,2,3-cd)pyrene	8270D	788	1660	47	326 J	1660	20 *	33-121	81*	30
Isophorone	8270D	579	1660	35	150 J	1660	9 *	21-79	118*	30
N-Nitrosodi-n-propylamine	8270D	508	1660	31	131 J	1660	8 *	15-78	118*	30
N-Nitrosodiphenylamine	8270D	844	1660	51	324 J	1660	19 *	29-108	91*	30
Naphthalene	8270D	467	1660	28	118 J	1660	7 *	18-81	120*	30
Nitrobenzene	8270D	527	1660	32	119 J	1660	7 *	14-80	128*	30
Pentachlorophenol (PCP)	8270D	748 J	1660	45	188 J	1660	11 *	13-117	121*	30
Phenanthrene	8270D	690	1660	42	283 J	1660	17 *	33-103	85*	30
Phenol	8270D	618	1660	37	144 J	1660	9 *	10-144	122*	30
Pyrene	8270D	697	1660	42	299 J	1660	18 *	33-111	80*	30

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 07/15/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1907053-02			RQ1907053-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4,5-Tetrachlorobenzene	8270D	1110	1660	67	1030	1670	62	10-115	8	30
2,3,4,6-Tetrachlorophenol	8270D	1010	1660	61	1040	1670	62	29-100	2	30
2,4,5-Trichlorophenol	8270D	1210	1660	73	1090	1670	65	29-97	12	30
2,4,6-Trichlorophenol	8270D	1220	1660	74	1090	1670	65	26-97	13	30
2,4-Dichlorophenol	8270D	1140	1660	69	1010	1670	60	25-90	14	30
2,4-Dimethylphenol	8270D	1230	1660	74	1050	1670	63	26-89	16	30
2,4-Dinitrophenol	8270D	568 J	1660	34	430 J	1670	26	10-128	27	30
2,4-Dinitrotoluene	8270D	1160	1660	70	1190	1670	71	30-111	1	30
2,6-Dinitrotoluene	8270D	1320	1660	80	1280	1670	77	28-105	4	30
2-Chloronaphthalene	8270D	1170	1660	70	1090	1670	65	21-88	7	30
2-Chlorophenol	8270D	1190	1660	72	1030	1670	62	18-87	15	30
2-Methylnaphthalene	8270D	1000	1660	60	848	1670	51	21-83	16	30
2-Methylphenol	8270D	1180	1660	71	1070	1670	64	22-86	10	30
2-Nitroaniline	8270D	1280 J	1660	77	1270 J	1670	76	27-105	1	30
2-Nitrophenol	8270D	1080	1660	65	946	1670	57	20-88	13	30
3- and 4-Methylphenol Coelution	8270D	1090	1660	66	1010	1670	60	27-92	10	30
3-Nitroaniline	8270D	1050 J	1660	64	1070 J	1670	64	27-98	<1	30
4,6-Dinitro-2-methylphenol	8270D	778 J	1660	47	790 J	1670	47	11-96	<1	30
4-Bromophenyl Phenyl Ether	8270D	1200	1660	72	1210	1670	72	25-96	<1	30
4-Chloro-3-methylphenol	8270D	1090	1660	66	952	1670	57	29-92	15	30
4-Chloroaniline	8270D	914	1660	55	864	1670	52	21-72	6	30
4-Chlorophenyl Phenyl Ether	8270D	1070	1660	65	1050	1670	63	25-92	3	30
4-Nitroaniline	8270D	1180 J	1660	71	1100 J	1670	66	27-102	7	30
4-Nitrophenol	8270D	1190 J	1660	72	1030 J	1670	62	10-130	15	30
Acenaphthene	8270D	1100	1660	66	994	1670	59	25-92	11	30
Acenaphthylene	8270D	1090	1660	66	1060	1670	63	27-93	5	30
Acetophenone	8270D	2210	3320	67	1880	3340	56	23-87	18	30
Anthracene	8270D	1210	1660	73	1130	1670	68	32-106	7	30
Benz(a)anthracene	8270D	1180	1660	71	1070	1670	64	33-109	10	30
Benzo(a)pyrene	8270D	1220	1660	73	1080	1670	65	34-115	12	30
Benzo(b)fluoranthene	8270D	1120	1660	67	988	1670	59	31-107	13	30
Benzo(g,h,i)perylene	8270D	1250	1660	75	1140	1670	68	30-127	10	30
Benzo(k)fluoranthene	8270D	1240	1660	75	1130	1670	68	34-111	10	30

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 07/15/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1907053-02			RQ1907053-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Biphenyl	8270D	1180	1660	71	1080	1670	65	26-88	9	30
2,2'-Oxybis(1-chloropropane)	8270D	1050	1660	63	935	1670	56	10-82	12	30
Bis(2-chloroethoxy)methane	8270D	1150	1660	70	981	1670	59	17-85	17	30
Bis(2-chloroethyl) Ether	8270D	1060	1660	64	973	1670	58	10-79	10	30
Bis(2-ethylhexyl) Phthalate	8270D	1360	1660	82	1250	1670	75	31-115	9	30
Butyl Benzyl Phthalate	8270D	1340	1660	81	1210	1670	73	31-115	10	30
Caprolactam	8270D	1100	1660	67	1110	1670	66	28-99	2	30
Carbazole	8270D	1380	1660	83	1270	1670	76	23-129	9	30
Chrysene	8270D	1170	1660	71	1040	1670	62	34-108	14	30
Di-n-butyl Phthalate	8270D	1410	1660	85	1340	1670	80	33-114	6	30
Di-n-octyl Phthalate	8270D	1420	1660	86	1290	1670	77	32-116	11	30
Dibenz(a,h)anthracene	8270D	1060	1660	64	942	1670	56	23-122	13	30
Dibenzofuran	8270D	1180	1660	71	1110	1670	67	27-94	6	30
Diethyl Phthalate	8270D	1110	1660	67	1080	1670	65	26-101	3	30
Dimethyl Phthalate	8270D	1180	1660	71	1180	1670	70	27-98	1	30
Fluoranthene	8270D	1250	1660	75	1170	1670	70	34-111	7	30
Fluorene	8270D	1070	1660	65	1030	1670	62	27-95	5	30
Hexachlorobenzene	8270D	1310	1660	79	1230	1670	74	30-104	7	30
Hexachlorobutadiene	8270D	1140	1660	69	995	1670	60	10-142	14	30
Hexachlorocyclopentadiene	8270D	1080	1660	65	1040	1670	62	10-133	5	30
Hexachloroethane	8270D	995	1660	60	892	1670	53	10-129	12	30
Indeno(1,2,3-cd)pyrene	8270D	1210	1660	73	1080	1670	64	33-121	13	30
Isophorone	8270D	1180	1660	71	1040	1670	62	21-79	14	30
N-Nitrosodi-n-propylamine	8270D	1110	1660	67	968	1670	58	15-78	14	30
N-Nitrosodiphenylamine	8270D	1410	1660	85	1290	1670	77	29-108	10	30
Naphthalene	8270D	1010	1660	61	904	1670	54	18-81	12	30
Nitrobenzene	8270D	1140	1660	69	1020	1670	61	14-80	12	30
Pentachlorophenol (PCP)	8270D	891 J	1660	54	960 J	1670	57	13-117	5	30
Phenanthrene	8270D	1160	1660	70	1080	1670	65	33-103	7	30
Phenol	8270D	1220	1660	74	1050	1670	63	10-144	16	30
Pyrene	8270D	1270	1660	77	1160	1670	69	33-111	11	30

Semivolatile Organic Compounds by GC

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 10-145	Tetrachloro-m-xylene 10-123
Area 1	R1905686-014	42	50
Area 2	R1905686-015	47	61
Area 3	R1905686-016	47	61
Area 4	R1905686-017	42	55
Area 5	R1905686-018	23	31
Method Blank	RQ1906424-01	46	64
Lab Control Sample	RQ1906424-04	21	26
Duplicate Lab Control Sample	RQ1906424-05	69	78

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906424-01	**Basis:**	Dry

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
4,4'-DDE	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
4,4'-DDT	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Aldrin	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Dieldrin	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endosulfan I	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endosulfan II	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endosulfan Sulfate	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endrin	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endrin Aldehyde	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Endrin Ketone	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Heptachlor	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Heptachlor Epoxide	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Methoxychlor	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
Toxaphene	20 U	33	20	1	07/02/19 20:48	6/26/19	
alpha-BHC	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
alpha-Chlordane	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
beta-BHC	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
delta-BHC	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
gamma-BHC (Lindane)	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	
gamma-Chlordane	0.85 U	1.7	0.85	1	07/02/19 20:48	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	46	10 - 145	07/02/19 20:48	
Tetrachloro-m-xylene	64	10 - 123	07/02/19 20:48	

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13 **Date Analyzed:** 07/02/19
Sample Matrix: Soil

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis: Dry

	Lab Control Sample				Duplicate Lab Control Sample					
	RQ1906424-04				RQ1906424-05					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
4,4'-DDD	8081B	1.75	6.65	26 *	5.70	6.68	85	33-149	106*	30
4,4'-DDE	8081B	1.55 J	6.65	23 *	5.58	6.68	83	38-147	113*	30
4,4'-DDT	8081B	1.21 J	6.65	18 *	5.17	6.68	77	37-146	124*	30
Aldrin	8081B	1.49 J	6.65	22 *	5.22	6.68	78	25-146	111*	30
Dieldrin	8081B	1.56 J	6.65	24 *	5.26	6.68	79	40-140	108*	30
Endosulfan I	8081B	1.59 J	6.65	24 *	5.19	6.68	78	35-116	106*	30
Endosulfan II	8081B	1.86	6.65	28 *	5.97	6.68	89	39-122	105*	30
Endosulfan Sulfate	8081B	1.52 J	6.65	23 *	5.22	6.68	78	31-132	110*	30
Endrin	8081B	1.65 J	6.65	25 *	5.62	6.68	84	40-144	109*	30
Endrin Aldehyde	8081B	0.84 U	6.65	0 *	1.88	6.68	28	10-109	NC	30
Endrin Ketone	8081B	1.59 J	6.65	24 *	5.35	6.68	80	38-122	108*	30
Heptachlor	8081B	1.68 J	6.65	25 *	5.44	6.68	81	34-142	106*	30
Heptachlor Epoxide	8081B	1.67 J	6.65	25 *	5.46	6.68	82	37-113	106*	30
Methoxychlor	8081B	1.23 J	6.65	18 *	5.39	6.68	81	41-152	126*	30
alpha-BHC	8081B	1.72	6.65	26 *	5.39	6.68	81	28-145	103*	30
alpha-Chlordane	8081B	1.64 J	6.65	25 *	5.42	6.68	81	37-114	107*	30
beta-BHC	8081B	1.91	6.65	29 *	5.81	6.68	87	38-144	101*	30
delta-BHC	8081B	1.79	6.65	27 *	5.86	6.68	88	30-153	106*	30
gamma-BHC (Lindane)	8081B	1.77	6.65	27 *	5.49	6.68	82	32-145	102*	30
gamma-Chlordane	8081B	1.58 J	6.65	24 *	5.34	6.68	80	34-123	109*	30

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QA/QC Report

Client: Day Environmental, Inc. **Service Request:** R1905686
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl 22-128	Tetrachloro-m-xylene 14-119
Area 1	R1905686-014	44	38
Area 2	R1905686-015	43	40
Area 3	R1905686-016	44	42
Area 4	R1905686-017	43	41
Area 5	R1905686-018	26	25
Method Blank	RQ1906424-01	74	69
Lab Control Sample	RQ1906424-02	58	52
Duplicate Lab Control Sample	RQ1906424-03	43	39

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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	RQ1906424-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	18 U	33	18	1	07/03/19 11:24	6/26/19	
Aroclor 1221	34 U	67	34	1	07/03/19 11:24	6/26/19	
Aroclor 1232	20 U	33	20	1	07/03/19 11:24	6/26/19	
Aroclor 1242	18 U	33	18	1	07/03/19 11:24	6/26/19	
Aroclor 1248	26 U	33	26	1	07/03/19 11:24	6/26/19	
Aroclor 1254	19 U	33	19	1	07/03/19 11:24	6/26/19	
Aroclor 1260	18 U	33	18	1	07/03/19 11:24	6/26/19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	22 - 128	07/03/19 11:24	
Tetrachloro-m-xylene	69	14 - 119	07/03/19 11:24	

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QA/QC Report

Client: Day Environmental, Inc.
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

Service Request: R1905686
Date Analyzed: 07/03/19

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg
Basis: Dry

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1906424-02			RQ1906424-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	8082A	99.5	166	60	74.2	167	44	41-127	29	30
Aroclor 1260	8082A	108	166	65	83.2	167	50	49-135	26	30

Metals

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BLANKS

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	120.00	U	120.00	U	120.00	U	120.00	U	12.000	U	P
Antimony	5.40	U	5.40	U	5.40	U	5.40	U	0.540	U	P
Arsenic	7.00	U	7.00	U	7.00	U	7.00	U	0.700	U	P
Barium	9.70	U	9.70	U	9.70	U	9.70	U	1.130	J	P
Beryllium	0.29	U	0.29	U	0.29	U	0.29	U	0.030	J	P
Cadmium	0.73	U	0.73	U	0.73	U	0.73	U	0.073	U	P
Mercury	0.035	U	0.035	U	0.035	U	0.035	U	0.006	U	CV
Calcium	320.00	U	320.00	U	320.00	U	320.00	U	32.000	U	P
Chromium	3.50	U	3.50	U	3.50	U	3.50	U	0.350	U	P
Cobalt	1.90	U	1.90	U	1.90	U	1.90	U	0.250	J	P
Copper	6.30	U	6.30	U	6.30	U	6.30	U	0.630	U	P
Iron	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Lead	4.00	U	4.00	U	4.00	U	4.00	U	0.400	U	P
Magnesium	130.00	U	130.00	U	130.00	U	130.00	U	13.000	U	P
Manganese	15.00	U	15.00	U	15.00	U	15.00	U	1.500	U	P
Nickel	6.60	U	6.60	U	6.60	U	6.60	U	0.660	U	P
Potassium	96.00	U	96.00	U	115.90	J	96.00	U	49.790	J	P
Selenium	5.40	U	5.40	U	7.70	J	5.40	U	0.540	U	P
Silver	0.71	U	0.71	U	0.71	U	0.71	U	0.071	U	P
Sodium	520.00	U	520.00	U	520.00	U	520.00	U	52.000	U	P
Thallium	6.50	U	6.50	U	6.50	U	6.50	U	0.650	U	P
Vanadium	7.10	U	7.10	U	7.10	U	7.10	U	0.710	U	P
Zinc	14.00	U	14.00	U	14.00	U	14.00	U	1.400	U	P

Comments:

METALS

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BLANKS

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			5.40	U	5.40	U	5.40	U			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			9.70	U	9.70	U	9.70	U			P
Beryllium			0.29	U	0.29	U	0.29	U			P
Cadmium			0.73	U	0.73	U	0.73	U			P
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			1.90	U	1.90	U	1.90	U			P
Copper			6.30	U	6.30	U	6.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			15.00	U	15.00	U	15.00	U			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			96.00	U	96.00	U	96.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.71	U	0.71	U	0.71	U			P
Sodium			520.00	U	520.00	U	520.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Vanadium			7.10	U	7.10	U	7.10	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

ALS Environmental

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Area 1S

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		5620.00		5440.00		208.0	87		P
Antimony	75 - 125	40.20		0.59	U	52.0	77		P
Arsenic	75 - 125	9.76		8.39		4.2	33	N	P
Barium	75 - 125	256.00		60.40		208.0	94		P
Beryllium	75 - 125	5.20		0.30	J	5.2	94		P
Cadmium	75 - 125	5.08		0.18	J	5.2	94		P
Calcium		8020.00		13600.00		208.0	-2683		P
Chromium	75 - 125	26.70		6.93		20.8	95		P
Cobalt	75 - 125	55.10		5.17	J	52.0	96		P
Copper	75 - 125	38.10		11.90		26.0	101		P
Iron		15300.00		16500.00		104.0	-1154		P
Lead	75 - 125	57.10		10.20		52.0	90		P
Magnesium		2700.00		2690.00		208.0	5		P
Manganese		427.00		432.00		52.0	-10		P
Nickel	75 - 125	58.60		9.72		52.0	94		P
Potassium	75 - 125	2500.00		787.00		2080.0	82		P
Selenium	75 - 125	92.70		0.59	U	105.0	88		P
Silver	75 - 125	4.97		0.08	U	5.2	96		P
Sodium	75 - 125	2090.00		57.30	U	2080.0	100		P
Thallium	75 - 125	194.00		0.72	U	208.0	93		P
Vanadium	75 - 125	58.30		8.96		52.0	95		P
Zinc	75 - 125	90.20		37.60		52.0	101		P

Comments: _____

ALS Environmental

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

Area 1SD

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		5360.00		5440.00		212.0	-38		P
Antimony	75 - 125	40.40		0.59	U	53.0	76		P
Arsenic	75 - 125	12.10		8.39		4.2	88		P
Barium	75 - 125	267.00		60.40		212.0	97		P
Beryllium	75 - 125	5.25		0.30	J	5.3	93		P
Cadmium	75 - 125	5.00		0.18	J	5.3	91		P
Calcium		19700.00		13600.00		212.0	2877		P
Chromium	75 - 125	26.50		6.93		21.2	92		P
Cobalt	75 - 125	55.10		5.17	J	53.0	94		P
Copper	75 - 125	36.40		11.90		26.5	92		P
Iron		15200.00		16500.00		106.0	-1226		P
Lead	75 - 125	59.10		10.20		53.0	92		P
Magnesium		2680.00		2690.00		212.0	-5		P
Manganese		562.00		432.00		53.0	245		P
Nickel	75 - 125	57.70		9.72		53.0	91		P
Potassium	75 - 125	2680.00		787.00		2120.0	89		P
Selenium	75 - 125	93.70		0.59	U	107.0	88		P
Silver	75 - 125	5.05		0.08	U	5.3	95		P
Sodium	75 - 125	2160.00		57.30	U	2120.0	102		P
Thallium	75 - 125	199.00		0.72	U	212.0	94		P
Vanadium	75 - 125	59.10		8.96		53.0	95		P
Zinc	75 - 125	82.70		37.60		53.0	85		P

Comments: _____

METALS
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DUPLICATES

SAMPLE NO.

Area 1SD

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0 % Solids for Duplicate: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5620.00		5360.00		5		P
Antimony		40.20		40.40		0		P
Arsenic		9.76		12.10		21	*	P
Barium		256.00		267.00		4		P
Beryllium		5.20		5.25		1		P
Cadmium		5.08		5.00		2		P
Calcium		8020.00		19700.00		84	*	P
Chromium		26.70		26.50		1		P
Cobalt		55.10		55.10		0		P
Copper		38.10		36.40		5		P
Iron		15300.00		15200.00		1		P
Lead		57.10		59.10		3		P
Magnesium		2700.00		2680.00		1		P
Manganese		427.00		562.00		27	*	P
Nickel		58.60		57.70		2		P
Potassium		2500.00		2680.00		7		P
Selenium		92.70		93.70		1		P
Silver		4.97		5.05		2		P
Sodium		2090.00		2160.00		3		P
Thallium		194.00		199.00		3		P
Vanadium		58.30		59.10		1		P
Zinc		90.20		82.70		9		P

Comments: _____

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1905686

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: Area 1

Solid LCS Source: CPI

Aqueous LCS Source:

Analyte	Aqueous (ug/L True	Found	%R	Solid (mg/K True	Found	C	Limits		%R
Aluminum				200	176.24		160	240	88
Antimony				50	45.03		40	60	90
Arsenic				4	3.79		3.2	4.8	95
Barium				200	202.14		160	240	101
Beryllium				5	4.75		4	6	95
Cadmium				5	4.83		4	6	97
Mercury				0.166	0.16		.133	.199	96
Calcium				200	187.55		160	240	94
Chromium				20	20.00		16	24	100
Cobalt				50	50.31		40	60	101
Copper				25	23.95		20	30	96
Iron				100	94.77		80	120	95
Lead				50	49.33		40	60	99
Magnesium				200	187.41		160	240	94
Manganese				50	49.03		40	60	98
Nickel				50	49.18		40	60	98
Potassium				2000	1847.62		1600	2400	92
Selenium				101	88.12		80.8	121	87
Silver				5	4.72		4	6	94
Sodium				2000	1883.07		1600	2400	94
Thallium				200	181.59		160	240	91
Vanadium				50	49.13		40	60	98
Zinc				50	48.11		40	60	96

Comments: _____

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905686
Project	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19
Sample Matrix:	Soil	**Date Received:**	06/19/19
		Date Analyzed:	06/28/19

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	Area 1	**Units:**	Percent
Lab Code:	R1905686-014	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample R1905686-014DUP Result	Average	RPD	RPD Limit
Total Solids	ALS SOP	-	-	89.0	88.9	88.9	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

July 18, 2019 Service Request No:R1905687

Mr. Charles Hampton
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606

Laboratory Results for: 4581 Lower Birch Run Rd

Dear Mr.Hampton,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2019
For your reference, these analyses have been assigned our service request number **R1905687.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
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Client: Day Environmental, Inc.
Project: 4581 Lower Birch Run Rd
Sample Matrix: Soil

Service Request: R1905687
Date Received: 06/19/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Five soil samples were received for analysis at ALS Environmental on 06/19/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

Approved by _____ Date 07/17/2019

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Day Environmental, Inc. **Service Request:**R1905687

Project: 4581 Lower Birch Run Rd/4884S-13

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1905687-001	Area 1	6/19/2019	0935
R1905687-002	Area 2	6/19/2019	1005
R1905687-003	Area 3	6/19/2019	1025
R1905687-004	Area 4	6/19/2019	1045
R1905687-005	Area 5	6/19/2019	1105

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 57580

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name: 4581 Lower Birch Run Rd	Project Number: 48834.3-13
Project Manager: C. Hampton	Report CC:
Company/Address: 1563 Lyell Avenue, Rochester New York 14606	
Phone #: 585 454 6210	Email: champton@dayenvironmental.com
Sampler's Signature:	Sampler's Printed Name: Charles Hampton

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 3 0 0 0 0

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs + TICs ◦ 8260 ◦ 624 ◦ CLP	GC/MS SVOAs + TICs ◦ 8270 ◦ 625	GC VOAs ◦ 8021 ◦ 601/602	PESTICIDES ◦ 8081 ◦ 608	PCBs ◦ 8082 ◦ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	PFAS							REMARKS/ ALTERNATE DESCRIPTION
Area 5-2		6/19/19	11:05	Soil	4	X														
Area 5-3			11:05		4	X														
AREA 1			09:35		3		+		X	X	X		X							
AREA 2			10:05		3		X		X	X	X		X							
AREA 3			10:25		3		X		X	X	X		X							
AREA 4			10:45		3		X		X	X	X		X							
AREA 5			11:05		3		X		X	X	X		X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other Methanol

SPECIAL INSTRUCTIONS/COMMENTS
Metals
4 TAL Metals List

-> PFAS Samples packed in seperate cooler

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
X Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
ASP CAT 0
MS/MSD REQUIRED
Edata X Yes ____ No

INVOICE INFORMATION
SAME
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Hanna Miller	Printed Name: Daniel Hart	Printed Name	Printed Name	Printed Name	
Firm: Day Environmental	Firm: ALS	Firm	Firm	Firm	
Date/Time: 6-19-19 / 1:45	Date/Time: 6/19/19/1345	Date/Time	Date/Time	Date/Time	

R1905687 5
Day Environmental, Inc.
4581 Lower Birch Run Rd

Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

R1905687 5

Day Environmental, Inc.
4681 Lower Birch Run Rd

Cooler Receipt and Preservation Check Form

Project/Client Day Env. Folder Number

Cooler received on 6/14/19 by: DM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as: Bulk Encore 5035set	NA DM 6/14/19

8. Temperature Readings Date: 6/14/19 Time: 1400 ID: IR#7 (IR#10) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	1.6	3.9	2.6				
Correction Factor (°C)	+0.6	+0.6	+0.0				
Corrected Temp (°C)	1.6	3.4	2.6				
Temp from:Type of bottle							
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by DM on 6/14/19 at 1400
5035 samples placed in storage location: R-F09 by ↓ on ↓ at ↓

Cooler Breakdown/Preservation Check**: Date: 6/20/19 Time: 1215 by: AD

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated (N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: _____
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	(SUB)
SO3	MARRS
ALS	REV

Labels secondary reviewed by: (AD)
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Subcontracted Analytical Parameters

ALS Environmental—Rochester Laboratory
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July 17, 2019 **Analytical Report for Service Request No:** R1905687

Brady Kalkman
ALS Environmental
1565 Jefferson Rd, Building 300
Suite 360
Rochester, NY 14623

RE: 4581 Lower Birch Run Rd / 4884S-13

Dear Brady Kalkman,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2019
For your reference, these analyses have been assigned our service request number **R1905687.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 3275. You may also contact me via email at Chris.Leaf@ALSGlobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Chris Leaf
Project Manager

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.
H	The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
X	See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.
Q	See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimated value.
J	The result is an estimated value.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjlabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water-	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.
Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/anlayte is offered by that state.

Case Narrative

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Client: Day Environmental, Inc.
Project: 4581 Lower Birch Run Rd
Sample Matrix: Soil

Service Request: R1905687
Date Received: 06/19/2019

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt:

Five soil samples were received for analysis at ALS Environmental on 06/21/2019. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Organic LC:

Method PFC/537M, 07/04/2019: The lower control criterion was exceeded for Perfluorodecane sulfonic acid (PFDS) in Lab Control Sample (LCS) KQ1908959-03. The error associated with slight reduced recovery of 81% indicated a potential slight low bias to the result reported for this analyte in the associated field samples. Insufficient preparation holding time remained to perform a re-extraction of the associated field samples. The data was flagged to indicate the problem. No further corrective action was feasible.

Method PFC/537M, 07/04/2019: The control criteria was exceeded for 18O2-PFHxS and D3-MeFOSAA in Continuing Calibration Verifications (CCV) KQ1909239-01. The recoveries of the associated native analytes were within control criteria, which indicated the analysis was in control. No further corrective action was appropriate.

Approved by _____ Date 07/17/2019

Chain of Custody

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Intra-Network Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Brady Kalkman

Project Name: 4581 Lower Birch Run Rd
Project Number: 4884S-13
Project Manager: Charles Hampton
Company: Day Environmental, Inc.
QAP: LAB QAP

Lab Code	Client Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Date Received	Send To	PFOA PFC/537M	TS 160.3 Modified
R1905687-001	Area 1	1	Soil	6/19/19	0935	6/19/19	KELSO	IV	IV
R1905687-002	Area 2		Soil	6/19/19	1005	6/19/19	KELSO	IV	IV
R1905687-003	Area 3		Soil	6/19/19	1025	6/19/19	KELSO	IV	IV
R1905687-004	Area 4		Soil	6/19/19	1045	6/19/19	KELSO	IV	IV
R1905687-005	Area 5		Soil	6/19/19	1105	6/19/19	KELSO	IV	IV

Test Comments

TS - 160.3 Modified	R1905687-001,2,3,4,5	Analyze in PFAS Free Environmen:
PFOA - PFC/537M	R1905687-001,2,3,4,5	NY List of 21

Folder Comments:
PFAS- NY List of 21, Analyze solids in PFAS Free Environment

Special Instructions/Comments

pH Checked _____

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS
1 2 3 4 5

____ **STANDARD**

Requested FAX Date: _____

Requested Report Date: ~~07/05/19~~ 7/10/19

Report Requirements

____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data

PQL/MDL/J N
EDD Y EQuIS V4.

Invoice Information

PO# 58R1905687

Bill to

Relinquished By: [signature] 6/20/19 1445

Received By: [signature] 6/21/19 0930

Airbill Number: _____

PC UV

Cooler Receipt and Preservation Form

Client ALS/Rock Service Request *K19* R1805087

Received: 6/21/19 Opened: 6/21/19 By: [illegible] Unloaded: 6/21/19 By: [illegible]

1. Samples were received via? *USPS* ~~*Fed Ex*~~ *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) ~~*Cooler*~~ *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? One, Side
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID (NA)	Tracking Number NA	Filed
0.1	0.1	—	—	0	380		4846 1681 6560	

4. Packing material: *Inserts* ~~*Baggies*~~ *Bubble Wrap* *Gel Packs* ~~*Wet Ice*~~ *Dry Ice* *Sleeves* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Were samples received in good condition (temperature, unbroken)? *Indicate in the table below.* NA (Y) N
   If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
12. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

Total Solids

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19
Sample Matrix:	Soil	**Date Received:**	06/19/19
Analysis Method:	160.3 Modified	**Units:**	Percent
		Basis:	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
Area 1	R1905687-001	**89.2**	-	1	06/26/19 15:30	
Area 2	R1905687-002	**90.9**	-	1	06/26/19 15:30	
Area 3	R1905687-003	**84.0**	-	1	06/26/19 15:30	
Area 4	R1905687-004	**89.5**	-	1	06/26/19 15:30	
Area 5	R1905687-005	**91.4**	-	1	06/26/19 15:30	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19
Sample Matrix:	Soil	**Date Received:**	06/19/19
		Date Analyzed:	06/26/19

Replicate Sample Summary
Inorganic Parameters

Sample Name:	Area 1	**Units:**	Percent
Lab Code:	R1905687-001	**Basis:**	As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1905687-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	89.2	89.9	89.6	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

ALS Environmental—Kelso Laboratory
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Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ng/g
Lab Code:	R1905687-001	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.99	1	07/04/19 03:38	6/28/19	*
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	0.99	1	07/04/19 03:38	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	0.99	1	07/04/19 03:38	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	0.99	1	07/04/19 03:38	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	0.99	1	07/04/19 03:38	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	0.99	1	07/04/19 03:38	6/28/19	

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 09:35
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 1	**Units:**	ng/g
Lab Code:	R1905687-001	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	61	33 - 109	07/04/19 03:38	
18O2-PFHxS	92	36 - 120	07/04/19 03:38	
13C4-PFOS	94	32 - 130	07/04/19 03:38	
13C4-PFBA	82	34 - 116	07/04/19 03:38	
13C5-PFPeA	77	39 - 133	07/04/19 03:38	
13C2-PFHxA	90	32 - 136	07/04/19 03:38	
13C4-PFHpA	90	36 - 133	07/04/19 03:38	
13C4-PFOA	82	31 - 134	07/04/19 03:38	
13C5-PFNA	99	27 - 133	07/04/19 03:38	
13C2-PFDA	80	30 - 137	07/04/19 03:38	
13C2-PFUnDA	86	32 - 146	07/04/19 03:38	
13C2-PFDoDA	70	36 - 136	07/04/19 03:38	
13C2-PFTeDA	81	39 - 138	07/04/19 03:38	
13C8-FOSA	85	40 - 132	07/04/19 03:38	
D3-MeFOSAA	55	20 - 154	07/04/19 03:38	
D5-EtFOSAA	67	29 - 153	07/04/19 03:38	
13C2-6:2 FTS	81	30 - 140	07/04/19 03:38	
13C2-8:2 FTS	76	9 - 171	07/04/19 03:38	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ng/g
Lab Code:	R1905687-002	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.0	1	07/04/19 04:11	6/28/19	*
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	1.0	1	07/04/19 04:11	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	1.0	1	07/04/19 04:11	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	1.0	1	07/04/19 04:11	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	1.0	1	07/04/19 04:11	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	1.0	1	07/04/19 04:11	6/28/19	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 2	**Units:**	ng/g
Lab Code:	R1905687-002	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	59	33 - 109	07/04/19 04:11	
18O2-PFHxS	94	36 - 120	07/04/19 04:11	
13C4-PFOS	95	32 - 130	07/04/19 04:11	
13C4-PFBA	85	34 - 116	07/04/19 04:11	
13C5-PFPeA	75	39 - 133	07/04/19 04:11	
13C2-PFHxA	96	32 - 136	07/04/19 04:11	
13C4-PFHpA	84	36 - 133	07/04/19 04:11	
13C4-PFOA	88	31 - 134	07/04/19 04:11	
13C5-PFNA	102	27 - 133	07/04/19 04:11	
13C2-PFDA	83	30 - 137	07/04/19 04:11	
13C2-PFUnDA	90	32 - 146	07/04/19 04:11	
13C2-PFDoDA	72	36 - 136	07/04/19 04:11	
13C2-PFTeDA	77	39 - 138	07/04/19 04:11	
13C8-FOSA	84	40 - 132	07/04/19 04:11	
D3-MeFOSAA	54	20 - 154	07/04/19 04:11	
D5-EtFOSAA	66	29 - 153	07/04/19 04:11	
13C2-6:2 FTS	76	30 - 140	07/04/19 04:11	
13C2-8:2 FTS	74	9 - 171	07/04/19 04:11	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ng/g
Lab Code:	R1905687-003	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.93	1	07/04/19 04:22	6/28/19	*
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	0.93	1	07/04/19 04:22	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	0.93	1	07/04/19 04:22	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	0.93	1	07/04/19 04:22	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	0.93	1	07/04/19 04:22	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	0.93	1	07/04/19 04:22	6/28/19	

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:25
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 3	**Units:**	ng/g
Lab Code:	R1905687-003	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	61	33 - 109	07/04/19 04:22	
18O2-PFHxS	93	36 - 120	07/04/19 04:22	
13C4-PFOS	95	32 - 130	07/04/19 04:22	
13C4-PFBA	83	34 - 116	07/04/19 04:22	
13C5-PFPeA	77	39 - 133	07/04/19 04:22	
13C2-PFHxA	86	32 - 136	07/04/19 04:22	
13C4-PFHpA	92	36 - 133	07/04/19 04:22	
13C4-PFOA	84	31 - 134	07/04/19 04:22	
13C5-PFNA	100	27 - 133	07/04/19 04:22	
13C2-PFDA	80	30 - 137	07/04/19 04:22	
13C2-PFUnDA	87	32 - 146	07/04/19 04:22	
13C2-PFDoDA	70	36 - 136	07/04/19 04:22	
13C2-PFTeDA	86	39 - 138	07/04/19 04:22	
13C8-FOSA	85	40 - 132	07/04/19 04:22	
D3-MeFOSAA	53	20 - 154	07/04/19 04:22	
D5-EtFOSAA	65	29 - 153	07/04/19 04:22	
13C2-6:2 FTS	79	30 - 140	07/04/19 04:22	
13C2-8:2 FTS	75	9 - 171	07/04/19 04:22	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ng/g
Lab Code:	R1905687-004	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.98	1	07/04/19 04:33	6/28/19	*
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	0.98	1	07/04/19 04:33	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	0.98	1	07/04/19 04:33	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	0.98	1	07/04/19 04:33	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	0.98	1	07/04/19 04:33	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	0.98	1	07/04/19 04:33	6/28/19	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 10:45
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 4	**Units:**	ng/g
Lab Code:	R1905687-004	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	53	33 - 109	07/04/19 04:33	
18O2-PFHxS	84	36 - 120	07/04/19 04:33	
13C4-PFOS	82	32 - 130	07/04/19 04:33	
13C4-PFBA	73	34 - 116	07/04/19 04:33	
13C5-PFPeA	69	39 - 133	07/04/19 04:33	
13C2-PFHxA	82	32 - 136	07/04/19 04:33	
13C4-PFHpA	77	36 - 133	07/04/19 04:33	
13C4-PFOA	76	31 - 134	07/04/19 04:33	
13C5-PFNA	90	27 - 133	07/04/19 04:33	
13C2-PFDA	72	30 - 137	07/04/19 04:33	
13C2-PFUnDA	76	32 - 146	07/04/19 04:33	
13C2-PFDoDA	63	36 - 136	07/04/19 04:33	
13C2-PFTeDA	71	39 - 138	07/04/19 04:33	
13C8-FOSA	77	40 - 132	07/04/19 04:33	
D3-MeFOSAA	50	20 - 154	07/04/19 04:33	
D5-EtFOSAA	60	29 - 153	07/04/19 04:33	
13C2-6:2 FTS	74	30 - 140	07/04/19 04:33	
13C2-8:2 FTS	68	9 - 171	07/04/19 04:33	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ng/g
Lab Code:	R1905687-005	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	0.89	1	07/04/19 04:43	6/28/19	*
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	0.89	1	07/04/19 04:43	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	0.89	1	07/04/19 04:43	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	0.89	1	07/04/19 04:43	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	0.89	1	07/04/19 04:43	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	0.89	1	07/04/19 04:43	6/28/19	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19 11:05
Sample Matrix:	Soil	**Date Received:**	06/19/19 13:45
Sample Name:	Area 5	**Units:**	ng/g
Lab Code:	R1905687-005	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	62	33 - 109	07/04/19 04:43	
18O2-PFHxS	100	36 - 120	07/04/19 04:43	
13C4-PFOS	99	32 - 130	07/04/19 04:43	
13C4-PFBA	88	34 - 116	07/04/19 04:43	
13C5-PFPeA	81	39 - 133	07/04/19 04:43	
13C2-PFHxA	97	32 - 136	07/04/19 04:43	
13C4-PFHpA	90	36 - 133	07/04/19 04:43	
13C4-PFOA	92	31 - 134	07/04/19 04:43	
13C5-PFNA	107	27 - 133	07/04/19 04:43	
13C2-PFDA	87	30 - 137	07/04/19 04:43	
13C2-PFUnDA	92	32 - 146	07/04/19 04:43	
13C2-PFDoDA	74	36 - 136	07/04/19 04:43	
13C2-PFTeDA	90	39 - 138	07/04/19 04:43	
13C8-FOSA	88	40 - 132	07/04/19 04:43	
D3-MeFOSAA	58	20 - 154	07/04/19 04:43	
D5-EtFOSAA	69	29 - 153	07/04/19 04:43	
13C2-6:2 FTS	87	30 - 140	07/04/19 04:43	
13C2-8:2 FTS	78	9 - 171	07/04/19 04:43	

Client: Day Environmental, Inc. **Service Request:** R1905687
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Surrogate	Control Limits	Area 1 R1905687-001	Area 2 R1905687-002	Area 3 R1905687-003
13C3-PFBS	33-109	61	59	61
18O2-PFHxS	36-120	92	94	93
13C4-PFOS	32-130	94	95	95
13C4-PFBA	34-116	82	85	83
13C5-PFPeA	39-133	77	75	77
13C2-PFHxA	32-136	90	96	86
13C4-PFHpA	36-133	90	84	92
13C4-PFOA	31-134	82	88	84
13C5-PFNA	27-133	99	102	100
13C2-PFDA	30-137	80	83	80
13C2-PFUnDA	32-146	86	90	87
13C2-PFDoDA	36-136	70	72	70
13C2-PFTeDA	39-138	81	77	86
13C8-FOSA	40-132	85	84	85
D3-MeFOSAA	20-154	55	54	53
D5-EtFOSAA	29-153	67	66	65
13C2-6:2 FTS	30-140	81	76	79
13C2-8:2 FTS	9-171	76	74	75

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Day Environmental, Inc. **Service Request:** R1905687
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Surrogate	Control Limits	Area 4 R1905687-004	Area 5 R1905687-005	Method Blank KQ1908959-04
13C3-PFBS	33-109	53	62	59
18O2-PFHxS	36-120	84	100	99
13C4-PFOS	32-130	82	99	92
13C4-PFBA	34-116	73	88	83
13C5-PFPeA	39-133	69	81	75
13C2-PFHxA	32-136	82	97	87
13C4-PFHpA	36-133	77	90	88
13C4-PFOA	31-134	76	92	83
13C5-PFNA	27-133	90	107	98
13C2-PFDA	30-137	72	87	80
13C2-PFUnDA	32-146	76	92	85
13C2-PFDoDA	36-136	63	74	70
13C2-PFTeDA	39-138	71	90	77
13C8-FOSA	40-132	77	88	85
D3-MeFOSAA	20-154	50	58	56
D5-EtFOSAA	29-153	60	69	72
13C2-6:2 FTS	30-140	74	87	77
13C2-8:2 FTS	9-171	68	78	74

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client: Day Environmental, Inc. **Service Request:** R1905687
Project: 4581 Lower Birch Run Rd/4884S-13
Sample Matrix: Soil

SURROGATE RECOVERY SUMMARY

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Extraction Method: EPA 3550B

Surrogate	Control Limits	Lab Control Sample KQ1908959-03	Area 1 KQ1908959-01	Area 1 KQ1908959-02
13C3-PFBS	33-109	61	62	60
18O2-PFHxS	36-120	103	113	103
13C4-PFOS	32-130	95	92	91
13C4-PFBA	34-116	83	82	80
13C5-PFPeA	39-133	78	78	78
13C2-PFHxA	32-136	84	83	84
13C4-PFHpA	36-133	94	99	93
13C4-PFOA	31-134	83	85	80
13C5-PFNA	27-133	99	101	97
13C2-PFDA	30-137	82	82	81
13C2-PFUnDA	32-146	82	83	79
13C2-PFDoDA	36-136	72	71	71
13C2-PFTeDA	39-138	79	82	80
13C8-FOSA	40-132	88	84	85
D3-MeFOSAA	20-154	60	58	59
D5-EtFOSAA	29-153	76	69	74
13C2-6:2 FTS	30-140	75	71	72
13C2-8:2 FTS	9-171	76	77	77

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with an pound (#) indicate the control criteria is not acceptable.

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	06/19/19
Sample Matrix:	Soil	**Date Received:**	06/19/19
		Date Analyzed:	07/4/19
		Date Extracted:	06/28/19

Duplicate Matrix Spike Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Sample Name:	Area 1	**Units:**	ng/g
Lab Code:	R1905687-001	**Basis:**	Dry
Analysis Method:	PFC/537M		
Prep Method:	EPA 3550B		

		Matrix Spike			Duplicate Matrix Spike					
		KQ1908959-01			KQ1908959-02					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perfluorobutane sulfonic acid (PFBS)	ND U	6.94	5.63	123	7.35	6.10	120	48-148	6	50
Perfluorohexane sulfonic acid (PFHxS)	ND U	5.15	5.79	89	6.26	6.28	100	75-142	19	50
Perfluoroheptane sulfonic acid (PFHpS)	ND U	5.28	6.05	87	6.28	6.55	96	69-173	17	50
Perfluorooctane sulfonic acid (PFOS)	ND U	5.83	5.89	99	6.41	6.39	100	72-141	10	50
Perfluorodecane sulfonic acid (PFDS)	ND U	5.63	6.12	92	5.76	6.63	87	83-152	2	50
Perfluorobutanoic acid (PFBA)	ND U	6.45	6.34	102	7.28	6.87	106	29-179	12	50
Perfluoropentanoic acid (PFPeA)	ND U	5.87	6.34	93	6.51	6.87	95	64-131	10	50
Perfluorohexanoic acid (PFHxA)	ND U	6.09	6.34	96	6.91	6.87	101	68-148	13	50
Perfluoroheptanoic acid (PFHpA)	ND U	5.67	6.34	89	6.08	6.87	89	73-136	7	50
Perfluorooctanoic acid (PFOA)	ND U	7.26	6.34	115	8.12	6.87	118	77-151	11	50
Perfluorononanoic acid (PFNA)	ND U	6.25	6.34	99	7.05	6.87	103	63-160	12	50
Perfluorodecanoic acid (PFDA)	ND U	6.06	6.34	95	6.91	6.87	100	73-142	13	50
Perfluoroundecanoic acid (PFUnDA)	ND U	6.37	6.34	100	7.65	6.87	111	69-147	18	50
Perfluorododecanoic acid (PFDoDA)	ND U	6.51	6.34	103	7.70	6.87	112	69-150	17	50
Perfluorotridecanoic acid (PFTrDA)	ND U	5.35	6.34	84	5.95	6.87	87	63-134	11	50
Perfluorotetradecanoic acid (PFTeDA)	ND U	6.62	6.34	104	7.52	6.87	109	70-143	13	50
Perfluorooctane sulfonamide (FOSA)	ND U	5.52	6.34	87	5.99	6.87	87	63-138	8	50
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	6.86	6.34	108	7.27	6.87	106	69-162	6	50
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	6.27	6.34	99	7.17	6.87	104	57-159	13	50
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	6.42	6.03	106	6.95	6.54	106	69-147	8	50
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	5.91	6.09	97	6.36	6.60	96	66-141	7	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ1908959-04	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Perfluoroalkane Sulfonic Acids						
Perfluorobutane sulfonic acid (PFBS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorohexane sulfonic acid (PFHxS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoroheptane sulfonic acid (PFHpS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorooctane sulfonic acid (PFOS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorodecane sulfonic acid (PFDS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoroalkane Carboxylic Acids						
Perfluorobutanoic acid (PFBA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoropentanoic acid (PFPeA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorohexanoic acid (PFHxA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoroheptanoic acid (PFHpA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorooctanoic acid (PFOA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorononanoic acid (PFNA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorodecanoic acid (PFDA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoroundecanoic acid (PFUnDA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorododecanoic acid (PFDoDA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorotridecanoic acid (PFTrDA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluorotetradecanoic acid (PFTeDA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
Perfluoroalkyl Sulfonamides						
Perfluorooctane sulfonamide (FOSA)	ND U	1.0	1	07/04/19 03:17	6/28/19	
N-Methyl perfluorooctane sulfonamidoacetic acid	ND U	1.0	1	07/04/19 03:17	6/28/19	
N-Ethyl perfluorooctane sulfonamidoacetic acid	ND U	1.0	1	07/04/19 03:17	6/28/19	
(n:2) Fluorotelomer Sulfonic Acids						
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ND U	1.0	1	07/04/19 03:17	6/28/19	
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ND U	1.0	1	07/04/19 03:17	6/28/19	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ng/g
Lab Code:	KQ1908959-04	**Basis:**	Dry

Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method: PFC/537M
Prep Method: EPA 3550B

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
13C3-PFBS	59	33 - 109	07/04/19 03:17	
18O2-PFHxS	99	36 - 120	07/04/19 03:17	
13C4-PFOS	92	32 - 130	07/04/19 03:17	
13C4-PFBA	83	34 - 116	07/04/19 03:17	
13C5-PFPeA	75	39 - 133	07/04/19 03:17	
13C2-PFHxA	87	32 - 136	07/04/19 03:17	
13C4-PFHpA	88	36 - 133	07/04/19 03:17	
13C4-PFOA	83	31 - 134	07/04/19 03:17	
13C5-PFNA	98	27 - 133	07/04/19 03:17	
13C2-PFDA	80	30 - 137	07/04/19 03:17	
13C2-PFUnDA	85	32 - 146	07/04/19 03:17	
13C2-PFDoDA	70	36 - 136	07/04/19 03:17	
13C2-PFTeDA	77	39 - 138	07/04/19 03:17	
13C8-FOSA	85	40 - 132	07/04/19 03:17	
D3-MeFOSAA	56	20 - 154	07/04/19 03:17	
D5-EtFOSAA	72	29 - 153	07/04/19 03:17	
13C2-6:2 FTS	77	30 - 140	07/04/19 03:17	
13C2-8:2 FTS	74	9 - 171	07/04/19 03:17	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Day Environmental, Inc.	**Service Request:**	R1905687
Project:	4581 Lower Birch Run Rd/4884S-13	**Date Analyzed:**	07/04/19
Sample Matrix:	Soil	**Date Extracted:**	06/28/19

Lab Control Sample Summary
Perfluorinated Sulfonic Acids and Perfluorinated Carboxylic Acids by HPLC/MS

Analysis Method:	PFC/537M	**Units:**	ng/g
Prep Method:	EPA 3550B	**Basis:**	Dry
		Analysis Lot:	641753

Lab Control Sample
KQ1908959-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8.29	7.61	109	69-147
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	7.40	7.68	96	66-141
N-Ethyl perfluorooctane sulfonamidoacetic acid	7.79	8.00	97	57-159
N-Methyl perfluorooctane sulfonamidoacetic acid	8.27	8.00	103	69-162
Perfluorobutane sulfonic acid (PFBS)	8.48	7.10	119	48-148
Perfluorobutanoic acid (PFBA)	8.24	8.00	103	29-179
Perfluorodecane sulfonic acid (PFDS)	6.29	7.72	81 *	83-152
Perfluorodecanoic acid (PFDA)	7.54	8.00	94	73-142
Perfluorododecanoic acid (PFDoDA)	8.47	8.00	106	69-150
Perfluoroheptane sulfonic acid (PFHpS)	7.22	7.63	95	69-173
Perfluoroheptanoic acid (PFHpA)	7.17	8.00	90	73-136
Perfluorohexane sulfonic acid (PFHxS)	7.13	7.30	98	75-142
Perfluorohexanoic acid (PFHxA)	7.92	8.00	99	68-148
Perfluorononanoic acid (PFNA)	8.20	8.00	103	63-160
Perfluorooctane sulfonamide (FOSA)	6.89	8.00	86	63-138
Perfluorooctane sulfonic acid (PFOS)	7.20	7.43	97	72-141
Perfluorooctanoic acid (PFOA)	9.19	8.00	115	77-151
Perfluoropentanoic acid (PFPeA)	7.54	8.00	94	64-131
Perfluorotetradecanoic acid (PFTeDA)	8.66	8.00	108	70-143
Perfluorotridecanoic acid (PFTrDA)	7.18	8.00	90	63-134
Perfluoroundecanoic acid (PFUnDA)	8.75	8.00	109	69-147

BILLS OF LADDING FOR IMPORT SOIL AND IMPORT #2/#3 STONE

RICHARD L. PECK CONSTRUCTION, INC.

63 South 7th St., Allegany, NY 14706
Office (716) 373-2006 Fax (716) 372-3766

Mastercard, Visa, American Express and Discover Cards Accepted

This is your Statement, no other bill will be sent.

PAYMENT IS DUE UPON RECEIPT. A 2% finance charge will be added after 30 days.

If filing exempt, please forward exemption certificate with payment.

August 1, 2019

P.O. #011329

Solepoxy
211 Fanklin St.
Olean, NY 14760

Jobsite: ~~211~~ 202 Franklin St., Olean, NY

07/10/19	Tractor and Brush Hog	4 hrs.
	Labor	4 hrs.
07/17/19	Fill Dirt delivered	189 yds.
07/18/19	Fill Dirt delivered	283 yds.
	Truck and Trailer	2 hrs.
	TD9 Dozer	6 hrs.
	Skid Steer	2.5 hrs.
	Dirt Roller	2 hrs.
07/22/19	Fill Dirt delivered	216 yds.
	Skid Steer	2 hrs.
07/23/19	Fill Dirt delivered	175.5 yds.
	TD9 Dozer	3 hrs.
	Dirt Roller	1 hr.
07/24/19	Fill Dirt delivered	13.5 yds.
07/25/19	TD9 Dozer	4 hrs.
	Skid Steer	1 hr.
	Dirt Roller	3 hrs.
07/26/19	Fill Dirt delivered	94.5 yds.
07/29/19	Fill Dirt delivered	283.5 yds.
	TD9 Dozer	8 hrs.
	Labor	8 hrs.
	Dirt Roller	2 hrs.
	Truck and Trailer	2 hrs.
07/30/19	88 Excavator	8 hrs.
	Skid Steer	8 hrs.
	TD9 Dozer	2 hrs.
	Dirt Roller	2 hrs.
	Labor	16 hrs.
	Single Axle	16 hrs.
	Fill Dirt delivered	297 yds.
07/31/19	88 Excavator	8 hrs.
	Skid Steer	8 hrs.
	TD9 Dozer	6 hrs.
	Roller	2 hrs.

Single Axles	16 hrs.	
Labor	16 hrs.	
Fill Dirt delivered	270 yds.	
		tax
		TOTAL

RICHARD L. PECK CONSTRUCTION, INC.

63 South 7th St., Allegany, NY 14706
Office (716) 373-2006 Fax (716) 372-3766

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August 1, 2019

P.O. #011329

Solepoxy
211 Fanklin St.
Olean, NY 14760

Jobsite: ~~211~~ 202 Franklin St., Olean, NY

08/01/19	88 Excavator	4 hrs.
	Single Axles	8 hrs.
	Skid Steer	5 hrs.
	Labor	6 hrs.
	Fill Dirt delivered	81 yds.
08/02/19	Fill Dirt delivered	135 yds.
08/05/19	Fill Dirt delivered	283 yds.
	TD9 Dozer	4 hrs.
08/06/19	TD9 Dozer	4.5 hrs.
08/07/19	Fill Dirt delivered	324 yds.
08/08/19	Fill Dirt delivered	175.5 yds.
	TD9 Dozer	4 hrs.
08/09/19	Fill Dirt delivered	297 yds.
	TD9 Dozer	4 hrs.
	Labor	4 hrs.
08/12/19	Fill Dirt delivered	94.5 yds.
	TD9 Dozer	6 hrs.
	Labor	6 hrs.
08/13/19	Fill Dirt delivered	162 yds.
	55 Volvo	6 hrs.
	TD9 Dozer	2 hrs.
	Single Axles	8 hrs.
	Roller	1 hr.
08/14/19	TD9 Dozer	2.5 hrs.
	Fill Dirt delivered	243 yds.
08/15/19	55 Volvo	8 hrs.
	Single Axles	8 hrs.
	Skid Steer	2 hrs.
	Fill Dirt delivered	121.5 yds.
08/19/19	Truck & Trailer	2 hrs.
08/21/19	590 Excavator	8 hrs.
	Single Axles	8 hrs.
	Labor	8 hrs.
	Tri-Axles	2 hrs.
	#3 Stone	13.5 yds.
08/22/19	TD9 Dozer	6 hrs.
	590 Excavator	6.5 hrs.
	Skid Steer	4.5 hrs.

	Single Axles	8 hrs.	
	Labor	8 hrs.	
	Tri-Axles	3 hrs.	
	#3 Stone	40.5 yds.	
08/23/19	Skid Steer	8 hrs.	
	TD9 Dozer	2 hrs.	
	Labor	8 hrs.	
	Fill Dirt delivered	162 yds.	
	Tri-Axles	10 hrs.	
	#3 Stone	67.5 yds.	
	#2 Stone	67.5 yds.	
	Filter Fabric	2 rolls	
08/26/19	TD9 Dozer	6 hrs.	
	88 Volvo	3 hrs.	
	Sc. Topsoil	18 yds.	
	Labor	10 hrs.	
	Fill Dirt delivered	229.5 yds.	
	Fabric	1 Roll	
08/27/19	TD9 Dozer	6 hrs.	
	Single Axles	2.5 hrs.	
	Sc. Topsoil	8 yds.	
	Skid Steer	6 hrs.	
	Labor	12 hrs.	
	88 Volvo	5 hrs.	
	Tri-Axles	2 hrs.	
	Fill Dirt delivered	175.5 yds.	
	#2 Stone	27 yds.	
	Bark	3 loads	
08/28/19	Skid Steer	8 hrs.	
	TD9 Dozer	4 hrs.	
	88 Volvo	6.5 hrs.	
	Labor	12 hrs.	
	Fabric	2 rolls	
	Fill Dirt delivered	297 yds.	
	Bark	2 loads	
	Credit for Fence and Post		)
			tax
			TOTAL



RICHARD L. PECK CONSTRUCTION, INC.

63 South 7th St., Allegany, NY 14706
Office (716) 373-2006 Fax (716) 372-3766

Mastercard, Visa, American Express and Discover Cards Accepted

This is your Statement, no other bill will be sent.

PAYMENT IS DUE UPON RECEIPT. A 2% finance charge will be added after 30 days.

If filing exempt, please forward exemption certificate with payment.

September 11, 2019

P.O. #011329

Solepoxy
211 Fanklin St.
Olean, NY 14760

CER 2019-22
190,000

Jobsite: ~~211~~ 202 Franklin St., Olean, NY

09/03/19	Tri-Axle	1 hr.
	Cr. #2 Stone	13.5 yds.
	Fill Dirt Delivered	297 yds.
	TD9 Dozer	6 hrs.
	88 Volvo	3 hrs.
	Skid Steer	8 hrs.
	Labor	8 hrs.
	Fabric	80'x17.5'
09/04/19	Skid Steer	2 hrs.
	Fill Dirt Delivered	13.5 yds.
09/06/19	Fill Dirt Delivered	189 yds.
	TD9 Dozer	7.5 yds.
	Skid Steer	2 hrs.
09/09/19	TD9 Dozer	7 hrs.
	Fill Dirt Delivered	67.5 yds.
09/10/19	TD9 Dozer	3.5 hrs.
09/11/19	Truck & Trailer	2 hrs.
TBD	Cr. #2 Stone	27 yds.
	Tri-Axle	2 hrs.
	Excavator	2 hrs.
	Truck & Trailer	1 hr.

[redacted]

~~tax~~
TOTAL

If payment is received before September 27, 2019, you may apply a 3% discount ~~this bill and the bill dated August 1, 2019~~

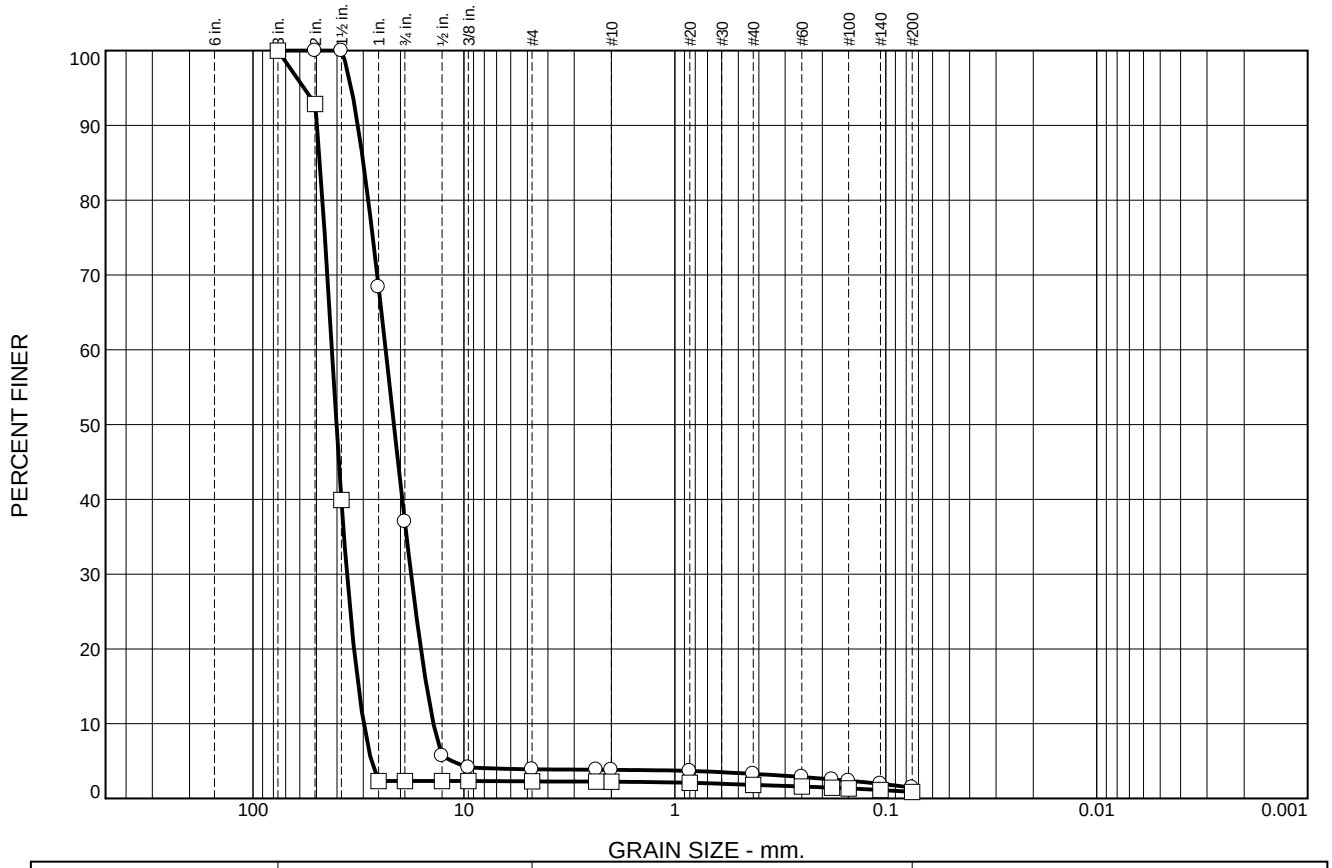
3% OFF ENTIRE JOB!

ALL 3 INVOICES

Work completed by MW.

TEST RESULTS FOR IMPORT #2/#3 STONE FILL

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	63.0	33.1	0.1	0.5	1.8	1.5	
□	0.0	97.7	0.0	0.1	0.4	0.9	0.9	

SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○		#2		Rounded Gravel	GP
□		#3		Rounded Gravel	GP

GeoTech Engineering

Morrisdale, Pennsylvania

Client: CCT Labs

Project: SolEpoxy, Inc.

Project No.: T098-016 **Figure** 1

Tested By: TJR **Checked By:** JLS

GRAIN SIZE DISTRIBUTION TEST DATA

8/21/2019

Client: CCT Labs
Project: SolEpoxy, Inc.
Project Number: T098-016
Location: 4581 Lower Birch Run Rd., Allegheny, NY
Sample Number: #2
Material Description: Rounded Gravel
USCS: GP
Tested by: TJR **Checked by:** JLS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
2617.16	0.00	3	0.00	0.00	100.0
		2	0.00	0.00	100.0
		1.5	0.00	0.00	100.0
		1	826.78	0.00	68.4
		0.75	821.51	0.00	37.0
		0.5	819.47	0.00	5.7
		0.375	40.95	0.00	4.1
		#4	6.50	0.00	3.9
		#8	1.24	0.00	3.8
		#10	0.37	0.00	3.8
		#20	3.76	0.00	3.7
		#40	10.45	0.00	3.3
		#60	10.70	0.00	2.9
		#80	8.87	0.00	2.5
		#100	4.50	0.00	2.4
		#140	10.75	0.00	2.0
		#200	12.97	0.00	1.5

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	63.0	33.1	96.1	0.1	0.5	1.8	2.4			1.5

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
11.3590	13.9472	15.0325	15.9945	17.7965	19.5909	21.4741	23.5114	28.4230	29.9836	31.8218	34.1721

Fineness Modulus	C_u	C_c
7.38	1.69	0.97

GRAIN SIZE DISTRIBUTION TEST DATA

8/21/2019

Client: CCT Labs
Project: SolEpoxy, Inc.
Project Number: T098-016
Location: 4581 Lower Birch Run Rd., Allegheny, NY
Sample Number: #3
Material Description: Rounded Gravel
USCS: GP
Tested by: TJR **Checked by:** JLS

Sieve Test Data

Dry Sample and Tare (grams)	Tare (grams)	Sieve Opening Size	Weight Retained (grams)	Sieve Weight (grams)	Percent Finer
2475.65	0.00	3	0.00	0.00	100.0
		2	176.53	0.00	92.9
		1.5	1310.83	0.00	39.9
		1	930.44	0.00	2.3
		0.75	0.00	0.00	2.3
		0.5	0.00	0.00	2.3
		0.375	0.00	0.00	2.3
		#4	0.98	0.00	2.3
		#8	0.94	0.00	2.3
		#10	0.35	0.00	2.2
		#20	3.54	0.00	2.1
		#40	6.92	0.00	1.8
		#60	5.32	0.00	1.6
		#80	4.23	0.00	1.4
		#100	2.28	0.00	1.3
		#140	5.19	0.00	1.1
		#200	6.46	0.00	0.9

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	97.7	0.0	97.7	0.1	0.4	0.9	1.4			0.9

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
27.4566	29.8592	31.6724	33.2114	35.8403	38.1171	40.2022	42.2580	46.8058	48.1741	49.7462	57.3430

Fineness Modulus	C_u	C_c
8.44	1.42	1.02

NYSDEC APPROVAL FOR IMPORT #2/#3 STONE FILL

From: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Sent: Thursday, August 29, 2019 10:46 AM
To: Charles Hampton
Cc: 'mark.wendel@solepoxy.com'; 'Matthew.Hopkins@solepoxy.com'; Ray Kampff
Subject: RE: C905043 - 202 Franklin Street, Olean - Import material for Soil Cover

Follow Up Flag: Follow up
Flag Status: Flagged

Acceptable, thanks

Anthony L. Lopes, P.E.
Department of Environmental Conservation
Division of Environmental Remediation
Region 9, Buffalo, NY 14203
Anthony.lopes@dec.ny.gov
716-851-7220

From: Charles Hampton <champton@daymail.net>
Sent: Wednesday, August 21, 2019 3:11 PM
To: Lopes, Anthony (DEC) <anthony.lopes@dec.ny.gov>
Cc: 'mark.wendel@solepoxy.com' <mark.wendel@solepoxy.com>; 'Matthew.Hopkins@solepoxy.com' <Matthew.Hopkins@solepoxy.com>; Ray Kampff <RKampff@daymail.net>
Subject: C905043 - 202 Franklin Street, Olean - Import material for Soil Cover

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Tony,

The purpose of this email is to transmit the grain size analysis (GSA) test results for import material that is proposed for use at the above referenced site to construct portions of the soil cover system. The attached GSA test results indicate that the proposed import material contains less than 10% by weight material which would pass through a size 80 sieve and consists of gravel, rock or stone, consisting of virgin material from a permitted mine or quarry [i.e., per the requirement for material to be imported for use without chemical testing as outlined in DER-10 Section 5.4(e)(5)].

Please review the attached results and, if acceptable, respond by email to confirm that the proposed import material is approved for use at the Site.

Thank You,

Charles A. Hampton
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606
Mobile: (585) 820-9021** **(primary)
Office: (585) 454-0210

APPENDIX J

PRODUCT SPECIFICATIONS FOR DEMARCATION FABRICS

HANES® GEO COMPONENTS™
A Leggett & Platt® COMPANY

815 Buxton Street | Winston Salem, NC | 27101
PH: 888.239.4539 | FAX: 336.747.1652
www.HanesGeo.com

TerraTex® GS

TerraTex® GS is a woven geotextile made up of polypropylene yarns. These yarns are woven to form a stable and durable network such that the yarns retain their relative position. TerraTex® GS meets AASHTO M288 Class 3 for separation and stabilization. It is non-biodegradable and resistant to most soil chemicals, acids, and alkali with a pH range of 3 to 12. TerraTex® GS is manufactured to meet or exceed the following minimum average roll values:

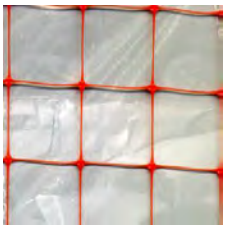
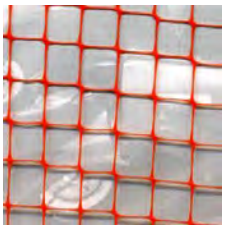
PROPERTY	TEST METHOD	ENGLISH	METRIC
Weight (Typical) [1]	ASTM D5261	**4.0** oz/yd^2	**136** g/m^2
Grab Tensile	ASTM D4632	**200** lbs	**0.90** kN
Grab Elongation	ASTM D4632	**15** %	**15** %
Trapezoid Tear	ASTM D4533	**75** lbs	**0.333** kN
CBR Puncture	ASTM D6241	**700** lbs	**3.120** kN
Permittivity [1]	ASTM D4491	**0.05** sec^{-1}	**0.05** sec^{-1}
Water Flow Rate [1]	ASTM D4491	**5** gpm/ft^2	**203** Lpm/m^2
AOS [1,2]	ASTM D4751	**40** US Std. Sleve	**0.430** mm
UV Resistance	ASTM D4355	**70** % @ 500 hrs	**70** % @ 500 hrs

1 At the time of manufacturing. Handling, storage, and shipping may change these properties.
2 Value represents maximum average roll value.

DISCLAIMER: Descriptions regarding the products described herein are based solely upon information provided by the manufacturer and are provided for informational purposes only. **NOTHING CONTAINED HEREIN SHOULD BE CONSTRUED AS CREATING AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, EACH OF WHICH IS HEREBY DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** The final determination as to the suitability of any product of Hanes Geo Components in any particular application rests solely with the user. Hanes Geo Components reserves the right to alter or modify its products and descriptions at any time without notice.

7/9/2015

High Visible Orange Demarcation Netting

	High Visible Orange Demarcation Netting	High Visible Orange Demarcation Netting
Master Roll Width	168” or 204”	168” or 204”
Strands per Inch	1.3 x 1.4	4 x 4
Mesh Opening	3/4” 	1/4” 
Weight (lbs/1000ft2)	2.2	4.0
Construction	Extruded Polypropylene Grid	Extruded Polypropylene Grid
Polypropylene Resin Specifications	polypropylene with orange colorant	polypropylene with orange colorant
Melt Temperature	323°F (161°C)	323°F (161°C)
Softening Point	305°F (152°C)	305°F (152°C)
Heat Deflection Temperature	194°F (90°C)	194°F (90°C)
Glass Transition Temperature	32°F (0°C)	32°F (0°C)

** Polypropylene products produced for some filtration applications are manufactured to comply with FDA regulations for food contact. The regulation compliance is product number dependent.*

** Product is not UV stabilized so they will lose tensile strength with prolonged exposure to sunlight. However, they don’t “degrade” in the sense that the disappear or return to some natural state*

IWT/Cargo-Guard ~ Ph: 609-971-8810 ~ P.O. Box 454, Waretown, NJ 08758 ~ www.iwtcargoguard.com

APPENDIX K

ENVIRONMENTAL EASEMENT AND PROOF OF FILING WITH CATTARAUGUS COUNTY

Cattaraugus County Clerk
Alan Bernstein

Cattaraugus County Center 303 Court Street
Little Valley, NY 14755
716-938-2297
Fax: 716-938-2773

Instrument Number
201910479

Document Type: EASEMENT

Receipt Number: 19-8751
Instrument Number: 201910479
Date/Time: 09/30/2019 03:28 PM

First Grantor: SILENCE DOGOOD LLC
First Grantee: NEW YORK STATE PEOPLE

Town: CO - OLEAN (CITY)

Pages: 10

Mortgage Serial No.:
Transfer Tax Number: 00502

Return To:
PHILLIPS LYTLE
ONE CANALSIDE
ENV
BUFFALO NY 14203

Deed Information

Transfer Tax	$0.00

Mortgage Information

Basic Tax	
Local Tax	
Additional Tax	
Special Tax	
Total Mortgage Tax	$0.00
Taxable Amount	

State of New York
County of Cattaraugus

This sheet constitutes the Clerk endorsement required by Section 316-A(5) & Section 319 of the Real Property Law of the State of New York.

Alan Bernstein

Cattaraugus County Clerk

Please do not remove this page

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 27th day of August, 2019 between Owner(s) Silence Dogood LLC, having an office at 211 Franklin Street, Olean, New York 14760, County of Cattaraugus, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 202 Franklin Street in the City of Olean, County of Cattaraugus and State of New York, known and designated on the tax map of the County Clerk of Cattaraugus as tax map parcel numbers: Section 94.040 Block 1 Lot 3, being the same as that property conveyed to Grantor by deed dated December 4, 2013 and recorded in the Cattaraugus County Clerk's Office in Instrument No. 209005-001. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 5.159 +/- acres, and is hereinafter more fully described in the Land Title Survey dated November 23, 2013 and last revised March 18, 2015 prepared by D. Michael Canada, L.L.S., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C905043-05-14, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Cattaraugus County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C905043
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Silence Dogood LLC:

By: _____

Print Name: Jeff Belt

Title: Manager Date: Aug 13, 2019

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Catt.)

On the 13 day of Aug, in the year 20 19 before me, the undersigned, personally appeared Jeff Belt, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Sharon See
Notary Public - State of New York

SHARON M. SEE
Notary Public, State of New York
Reg. No. 01SE6377914
Qualified in Cattaraugus County
Commission Expires July 16, 2022

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 27th day of August, in the year 2019, before me, the undersigned, personally appeared Michael J. Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public – State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2022

SCHEDULE "A" PROPERTY DESCRIPTION

Environmental Easement Description
202 Franklin Street

Beginning at the intersection of the north bounds of Franklin Street with the east bounds of lands of Southern Tier Rail Authority LLC, thence along the east bounds of lands of Southern Tier Rail Authority:

1) along a curve to the right, with a radius of 1432.69', a arc length of 338.04' which is subtended by a chord of N 5-34-22 W, a distance of 337.26' to a point

2) N 59-28-08 E, a distance of 68.03' to a point

3) N 30-28-00 W, a distance of 51.78' to a point

4) along a curve to the right, with a radius of 1240.79', a arc length of 266.80' which is subtended by a chord of N 13-20-34 E, a distance of 266.29' to a point, thence along the south bounds of Interstate Route 86: along a curve to the right, with a radius of 5544.58', a arc length of 174.67' which is subtended by a chord of N 60-12-59 E, a distance of 174.66' to a point thence S 30-06-22 E, through the lands of Silence Dogood LLC, a distance of 547.88' to a point,

thence S 59-32-00 W along the north bounds of Franklin Street, a distance of 565.54' to the point of beginning.

Contains 5.159 acres +/-

TP-584.2 (10/96)

Recording Office Time Stamp

Real Estate Transfer Tax Return For Public Utility Companies' and Governmental Agencies' Easements and Licenses

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is $500.00 or less.

Name of grantee (public utility company or governmental agency)
New York State Department of Environmental Conservation

Federal employer identification number *(if applicable)* 14-6001320 0

Address of grantee
625 Broadway, Albany, New York 12233-1500

Name and telephone number of person to contact

	Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1.	Silence Dogood LLC	211 Franklin Street, Olean, New York	0
2.	Silence Dogood LLC	202 Franklin Street, Olean, New York	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

New York State Department of Environmental Conservation
Name of grantee

Jennifer Andaloro
Signature of partner, officer of corporation, governmental official, etc.

NYSDEC Attorney
Title