INTERIM REMEDIAL MEASURE COMPLETION REPORT

5565 River Road (915239)

Erie County, Tonawanda, New York

Prepared for:

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

New York State Department of Environmental Conservation
Division of Environmental Remediation

Prepared by:

EA ENGINEERING, P.C. and Its Affiliate
EA SCIENCE and TECHNOLOGY

May 2016

Interim Remedial Measure Completion Report
5565 River Road Site (915239)
Erie County, Tonawanda, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

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May 2016
Version: FINAL
EA Project No. 14907.21

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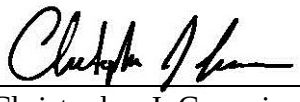
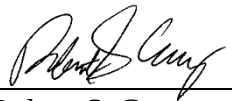


10 May 2016

Christopher J. Canonica, P.E.
President

Date



10 May 2016

Robert S. Casey
Project Manager

Date

May 2016
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LIST OF ACRONYMS AND ABBREVIATIONS

µg/wipe	Micrograms per wipe
µg/L	Micrograms per liter
yd^3	Cubic yard
AOC	Area of concern
ATV	All-terrain vehicle
CFR	Code of Federal Regulations
CHES	Clean Harbors Environmental Services, Inc.
EA	EA Engineering, P.C. and Its Affiliate EA Science and Technology
EPA	U.S. Environmental Protection Agency
gal	Gallon(s)
GM	General Motors
ID	Identification
IRM	Interim remedial measure
J	Concentration is an estimated value
mi	Mile(s)
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
NA	Not available
NYLD	New York Leak Detection, Inc.
NYSDEC	New York State Department of Environmental Conservation
OP-TECH	OP-TECH Environmental Services, Inc.
PCB	Polychlorinated biphenyl
PID	Photoionization detector
ppm	Parts per million
PSA	Preliminary site assessment
RCRA	Resource Conservation and Recovery Act
RI	Remedial investigation
SJB	SJB Services, Inc.
SVOC	Semi-volatile organic compound
TAL	Target analyte list

TCE	Trichloroethene
TCLP	Toxicity characteristic leaching procedure
TPH	Total petroleum hydrocarbon
TSCA	Toxic Substances Control Act
U	Analyzed but not reported at a concentration above the reporting limit
VOC	Volatile organic compound
yd^3	Cubic yard

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform a remedial investigation (RI)/feasibility study at the 5565 River Road site (NYSDEC Site Number [No.] 915239) (Figure 1). Based on field investigation activities conducted during the RI, EA completed an interim remedial measure (IRM) that included excavation and disposal of subsurface drums identified during geophysical survey and test pitting activities. The IRM activities and associated field investigation results are summarized within this report. The Work Assignment is being conducted under the NYSDEC State Superfund Standby Contract (Work Assignment No. D007624-21).

1.1 SITE BACKGROUND

The subject site is located at 5565 River Road in the Town of Tonawanda, Erie County, New York. The property is a single parcel consisting of approximately 37 acres (Figure 2). The property is bounded on the west by vacant, forested land owned by the Lake Ontario Steel Company and the Riverview Industrial Center Site; on the south by commercial property owned by Enbridge Energy Partners; on the east by vacant property owned by the Town of Tonawanda; and on the north by a truck terminal owned by RLR Investments, LLC. Access to the site is via a gravel drive on the adjacent property owned by the Town of Tonawanda.

The site was initially discovered in September 2009 during a Phase I Environmental Site Assessment (PSA) that identified mounds of industrial fill and several empty 55 gallon (gal) drums on the ground surface within the northern 24-acre portion of the site (TVGA Consultants 2009)[1]. Based upon the Phase I Environmental Site Assessment, the site was placed on the Registry of Inactive Hazardous Waste Disposal Sites as a Potential Site in October 2010. From October to December 2011, the NYSDEC completed a PSA that included a detailed property survey, site reconnaissance, test pitting program, and the collection of several environmental samples (NYSDEC 2012)[2]. Based on investigation findings, the PSA recommended that the site be listed in the Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 site. The PSA field investigation was focused in the northern 24-acre portion of the site.

Operational history of the site is primarily based on aerial photographs and interviews that indicate the site was operated as a dump for industrial fill material (primarily fly ash and foundry sand) from the 1960s through the 1990s. Aerial photographs from 2005 indicate that dumping at the site had ended and that trees were present at the former disposal areas. Additionally, several well defined all-terrain vehicle (ATV) trails running through former disposal areas were present within the northern portion of the site. Interviews conducted during the PSA and observations made in the field indicated that a portion of the industrial fill (i.e., fly ash) may have come from a Niagara Mohawk power plant located approximately 2 miles (mi) south of the site. The power

[1] TVGA Consultants. 2009. Phase I Environmental Site Assessment Report for 5565 River Road, Town of Tonawanda, Erie County, New York. September.
[2] NYSDEC. 2012. Preliminary Site Assessment, 5565 River Road Site, Tonawanda, Erie County, New York, Site Number 915239, completed by NYSDEC Region 9. August.

plant is now known as the NRG Huntley Generating Station. During the PSA test pitting program, several surface and subsurface drums were encountered that were from the Chevrolet Tonawanda Division of General Motors (GM) Corporation (NYSDEC 2012)[2]. A GM plant is located approximately 4 mi south of the site and historically operated a casting foundry until the mid-1980s. The presence of foundry sand and drums from GM suggest that a portion of the fill material came from the GM plant south of the site.

Photos of the site taken in August 2013 (i.e., pre-IRM conditions) are provided in Appendix A of this report. Also included in Appendix A are photos from October and November 2013 depicting conditions at the site following performance of IRM activities.

1.2 INTERIM REMEDIAL MEASURE OBJECTIVES

The IRM activities at the 5565 River Road site included the following tasks:

- Excavation and stockpiling of subsurface drums from four areas of concern (AOCs) identified during the geophysical survey and test pitting activities.
- Sampling of drum waste from stockpiled drums for laboratory analysis.
- Management and disposal of the excavated drums and drum contents.

A summary of these activities is provided in the following subsections. Sampling and analytical protocols required for offsite disposal were managed and performed by EA. Copies of the daily field reports and field logbook are included in Appendix B of this report. New York Leak Detection, Inc. (NYLD) was subcontracted to complete the geophysical survey at the site. SJB Services, Inc. (SJB), of Hamburg, New York, was subcontracted to perform the excavation and stockpiling of subsurface drums. OP-TECH Environmental Services, Inc. (OP-TECH) was subcontracted to perform the removal and disposal of the stockpiled over-pack drum oil waste generated during the IRM. Clean Harbors Environmental Services, Inc. (CHES) was subcontracted to perform the removal and disposal of the drums and drum content waste generated during the IRM.

Section 2 of this report summarizes the IRM field activities performed under the IRM, including the geophysical survey, excavation and stockpiling, drum waste sampling, and drum removal and disposal. Also included in Section 2 is a description of decontamination procedures employed during the IRM activities. Section 3 of the report summarizes the waste characterization results and the total analytical results of the drum waste samples. Conclusions specific to the IRM activities are provided in Section 4 of the report. The following items are included as appendixes to this report:

- **Appendix A**—Site Photos – Pre-IRM and Post-IRM
- **Appendix B**—Daily Field Reports and Field Log Book
- **Appendix C**—Waste Profile Sheets

- **Appendix D**—Over-pack Drum Oil Waste and Drum Contents Waste Disposal Manifests
- **Appendix E—**Laboratory Analytical Data Form 1's, Chain-of-Custody Forms.

2. INTERIM REMEDIAL MEASURE ACTIVITIES

2.1 GEOPHYSICAL SURVEY

The geophysical survey was performed by NYLD across the northern 24-acre portion of the site from September 23 to 27, 2013. NYLD personnel utilized the Profiler EMP 400, a portable multi-frequency electromagnetic induction sensor, to identify points of interest and AOCs throughout the survey area. Points of interest identified as potential subsurface drums were marked with 3-foot survey stakes in the field. Each potential subsurface drum point was then confirmed using ground penetrating radar. A total of 4 AOCs and 37 points of interest were identified during the survey. Of the 37 points of interest, 34 were marked as potential subsurface drum areas in the field (Figure 3).

AOC01 is located along the northern bank of Rattlesnake Creek as it flows east through a conduit. One large ATV path bisects the AOC from east to west. Directly to the south of AOC01, there is a steep drop into a wetland area that overlays the Rattlesnake Creek conduit. The wetland area is fed by drainage from a retention pond located to the east of the site on the adjacent property. A large industrial fill scarp that consists primarily of fly ash is located immediately south of the wetland area. Prior to site clearance, AOC01 was overgrown with tall grasses, brush, and trees. Vegetation within the wetland area south of AOC01 consisted primarily of phragmites.

The eastern portion of AOC02 is located atop the industrial fill scarp south of Rattlesnake Creek and the wetland area. To the west, the terrain at AOC02 drops off of the fill scarp into a relatively flat area. Several ATV paths cross AOC02 and meet within a clearing in the central portion of the AOC. The majority of AOC02 was overgrown with phragmites and brush prior to site clearance. Vegetation in the extreme western portion of the AOC was characterized by tall trees and thick underbrush.

AOC03 is located along the northern bank of Middle Creek in a relatively flat area of the site. A single ATV path crosses the extreme eastern portion of the AOC. Prior to site clearance, the AOC was overgrown with trees and thick underbrush. Land north of the AOC is poorly drained and saturated most of the year. Terrain immediately south of the AOC is characterized by a steep drop into the Middle Creek stream channel. Based on field observations, both the north and south bank of Middle Creek consist primarily of fly ash and foundry sand.

AOC04, the largest AOC, is located between Middle Creek and South Creek. Terrain at AOC04 is characterized by a gentle upward slope from east to west with a steep drop along the western side of the AOC. To the south, the terrain drops sharply into the South Creek drainage. Prior to site clearance, the eastern portion of the AOC was overgrown with tall grass and phragmites. The western portion of the AOC was overgrown with trees, thick shrubs, and underbrush.

2.2 EXCAVATION AND STOCKPILING OF SUBSURFACE DRUMS

Excavation of test pits within each AOC was performed by SJB from October 24 to November 1, 2013. Test pitting activities were concentrated in those areas identified during the geophysical survey and at locations where drums were encountered during the PSA. An excavator equipped with a clam-shell bucket was used throughout the field effort. Test pits were excavated using 6-inch depth intervals in an attempt to avoid puncturing or rupturing intact drums.

Subsurface drum caches were observed in each AOC identified during the geophysical survey and test pitting activities. The drum caches were observed to be laying horizontal within the test pits, typically in side-by-side and end-to-end fashion. Each of the subsurface drums encountered were in poor deteriorated condition with leaking contents. Partially full and empty drums were encountered in each AOC, and typical drum contents consisted of black sludge, black oil, and black to brown liquid with solvent odors. If drum conditions allowed, partially full oil drums were drained and placed into 85-gal drum over-packs and sealed. All other drums were removed and staged adjacent to the associated test pit on 6 millimeter polyethylene sheeting to prevent drum contents from impacting ground surface soil. Subsurface soil that was visibly impacted by drum contents was also removed from the test pit and placed on the poly sheeting. To prevent the migration of drum contents to the areas immediately surrounding stockpiles, excavated drums and soil were covered with poly sheeting and then staked to the ground. Upon completion of drum removal activities, test pits were backfilled and marked at the excavation extents with wooden survey stakes.

Thirty-four test pits, including two bank excavation areas, were completed to locate buried drums (Figures 4A and 4B). A total of 348 buried drums were recovered and a total of four 85-gal drum over-packs were filled with drums and liquid drum contents during the excavation effort. Liquid drum contents consisted primarily of black oil material. The number of drums removed from each test pit and AOC are included in Table 1.

During test pitting activities volatile organic compounds (VOCs) were monitored at the downwind perimeter of the immediate work area on a continuous basis. Additionally, drum contents were screened prior to being removed from the test pits to determine if the presence of unsafe levels of VOCs existed. Upwind concentrations were measured at the start of each workday, and periodically thereafter, to establish background conditions. VOC monitoring was performed using a MiniRAE 2000 photoionization detector (PID), which was appropriate to measure the types of contaminants known or suspected to be present at the site. The PID was calibrated daily for the contaminant(s) of concern or for an appropriate surrogate.

2.3 DRUM WASTE SAMPLING

A total of 11 drum waste samples were collected from 11 drums in AOC01, AOC02, and AOC04 for waste material characterization and disposal (Table 1, Figures 5A and 5B). Drum waste samples from AOC03 were not submitted for chemical analysis as the nature of the material was not observably different from samples collected at the other AOCs. Waste samples were

collected directly from the drums. Contents were screened with a PID to monitor vapor concentrations prior to and during sample collection. Solid and semi-solid contents were sampled using dedicated disposable plastic scoops. Liquid contents were sampled using dedicated disposable polyethylene cups and bowls.

Each drum waste sample was sent to Hampton-Clarke Veritech, Inc. under standard chain-of-custody for analysis of VOCs by U.S. Environmental Protection Agency (EPA) Method 8260B, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, polychlorinated biphenyls (PCBs) by EPA Method 8082, and target analyte list (TAL) metals and mercury by EPA Method 6010B/7470 in accordance with the NYSDEC Analytical Services Protocol. Additional analysis of the drum waste material included total petroleum hydrocarbons (TPH)-fingerprinting of oil contents to potentially identify waste oils to a known substance and toxicity characteristics leaching procedure by EPA Method 1311 for waste characterization. A summary of these results are presented on Tables 2 through 6. A discussion of the results is presented in Section 3.1.

2.4 DRUM WASTE AND OVERPACK DRUM REMOVAL AND DISPOSAL

Due to the potentially hazardous nature of the excavated drum debris, OP-TECH was contacted to deliver roll-offs to the site in order to contain the drum waste, prior to receipt of the analytical data packages for the drum waste samples. Between November 21 and 26, 2013 a total of five 25 cubic yards (yd^3) roll-offs were delivered to the site by Buffalo Fuel Corp. (three roll-offs) and E-Tank, Ltd. (two roll-offs). Each roll-off was double-lined with poly sheeting and covered with either a supported soft top or hinged steel lid.

OP-TECH mobilized to the site on November 25, 2013 and utilized a frontend loader equipped with a clam-shell bucket to crush and load stockpiled drums into the staged roll-offs. Solid or semi-solid drum contents, as well as poly sheeting used to stage and cover the drum stockpiles, were loaded into the roll-offs with the drums. During drum consolidation activities, VOCs were monitored at the downwind perimeter of the immediate work area on a continuous basis. Upwind concentrations were measured at the start of each workday, and periodically thereafter, to establish background conditions. The monitoring was performed using a PID (MiniRAE 200), which was appropriate to measure the types of contaminants known or suspected to be present at the site. The PID was calibrated daily for the contaminant(s) of concern or for an appropriate surrogate. Subsequent to drum removal, the roll-off covers were replaced and secured.

Upon receipt of the analytical data packages for drum waste samples, EA submitted the results to NYSDEC for review and approval. EA contacted several disposal facilities to assess waste disposal options for the four 85-gal over-packs of drum oil waste, and the drums and waste contained in the four roll-offs. Due to the hazardous characteristics of the mixed waste stream, PCBs exceeding the Toxic Control Substances Act (TSCA) of 50 parts per million (ppm), lead and trichloroethene (TCE) failing the toxicity characteristic leaching procedure, several disposal facilities declined to provide services for transportation and disposal of the drums and waste in the roll-offs. As a result, the secured roll-offs containing the drum waste remained onsite from November 25, 2013 to September 16, 2014 until CHES agreed to provide an estimate for

handling, transportation, and disposal of the roll-off waste stream. Waste profile sheets for the soil and debris in the roll-offs are included in Appendix C.

2.4.1 Roll-off Waste Stream

EA submitted waste stream analytical results and information related to the proposed final destination and handler (Grassy Mountain Facility in Grantsville, Utah operated by CHES) for approval. CHES submitted an acceptance letter verifying that the analytical results of the waste material was within the acceptance parameters of their TSCA/Resource Conservation and Recovery Act (RCRA) chemical waste permitted landfill. The letter also documents that the material would not be "deliberately diluted from an original PCB concentration greater than or equal to 50 ppm or deliberately mixed with soil in order to avoid the incineration requirements of Code of Federal Regulations (CFR) Part 761.60(a)." NYSDEC approved the disposal facility and CHES re-mobilized to the site on September 16, 2014.

On September 16, 2014 CHES mobilized four clean roll-offs, an excavator fitted with a clam-shell bucket attachment, a standard excavator bucket, and field staff to transfer the waste and drum debris from the OP-TECH roll-offs to CHES roll-offs. The CHES roll-offs were placed adjacent to the OP-TECH roll-offs. The ground between the two roll-offs was covered with poly sheeting in order to capture and prevent any potential debris from contacting the ground during the waste transfer. The clam-shell bucket was used to transfer the crushed metal drums and larger pieces of poly sheeting. The standard excavator bucket was used to scoop and transfer remaining sludge and smaller debris.

Subsequent to waste transfer operations, OP-TECH completed decontamination activities on two roll-offs that contained sludge and one roll-off that contained accumulated water from precipitation events. On September 22, 2014, an aqueous sample was collected from the sludge/water in one roll-off and wipe samples were collected from two roll-offs that previously contained sludge. The aqueous sample was submitted for VOC analysis by EPA Method 8260B and PCB analysis by EPA Method 8082. The wipe samples were submitted for PCB analysis by EPA Method 8082. A discussion of the sampling results are included in Section 3.2. Based on the sludge/water analytical results, accumulated water was discharged from one roll-off to the ground surface. Any remaining sludge was transferred to a drum prior to decontaminating the roll-off.

A total of 32.75 tons of material was transferred from the five OP-TECH roll-offs, consolidated into four CHES roll-offs and transported to the CHES Grassy Mountain Landfill in Grantsville, Utah for disposal at the RCRA and TSCA permitted facility. An EA representative was responsible for implementation and management of the transportation and disposal activities to ensure the material was properly disposed. Receipted load manifest tickets from CHES are provided in Appendix D.

2.4.2 Over-pack Drum Oil Waste Stream

Based on the analytical results for the drum oil waste, EA submitted information for the disposal of the four over-packs to Model City Hazardous Waste Facility operated by Chemical Waste Management Services, Inc. in Model City, New York. The approved handler of the four over-pack oil drums was OP-TECH. The waste profile sheets for the oil waste contained in the over-pack drums are included in Appendix C.

On September 11, 2014, OP-TECH mobilized to the site with a box van and field staff to pick-up the four 85-gal over-pack oil drums. The four over-pack oil drums were transported to Model City Hazardous Waste Facility in Model City, New York. An EA representative was responsible for implementation and management of the transportation and disposal activities to ensure the material was properly disposed. Receipted load manifest tickets from OP-TECH are provided in Appendix D.

2.5 DECONTAMINATION ACTIVITIES

On August 26, 2013, as part of the RI field activities, OP-TECH constructed a decontamination pad in a clearing adjacent to the gravel access road located in the central portion of the site. The decontamination pad is equipped with a drainage sump on a properly graded area that has no deleterious material. The decontamination pad was constructed to prevent any migration or seepage of fluids and sediments into the ground, as well as having a walled perimeter for splash and overspray protection. The decontamination pad was also used for the September 2014 supplemental RI activities. Prior to the start of the supplemental RI fieldwork, OP-TECH mobilized to the site to repair any damage and place new poly sheeting on the walls and bottom of the pad.

Decontamination was completed on an as needed basis utilizing a steam-pressure washer and water brought from an offsite location. Construction equipment used during intrusive phases of field work, and during transfer of wastes to and from the roll-offs were required to be decontaminated prior to exiting the site. EA maintained and cleaned the decontamination pad after use. The decontamination water was pumped into clean 55-gal drums.

3. FIELD SAMPLING RESULTS

3.1 DRUM WASTE CHARACTERIZATION RESULTS

The analytical results of the drum waste samples collected from buried drums in AOC01, AOC02, and AOC04 are summarized in Tables 2 through 6. Eleven samples were analyzed for total VOCs by EPA Method 8260B, SVOCs by EPA Method 8270C, PCBs by EPA Method 8082, and TAL metals and mercury by EPA Method 6010B/7470. Seven of the 11 samples were also analyzed for toxicity characteristics leaching procedure VOCs, SVOCs, PCBs, and TAL metals and mercury by EPA Method 1311. These parameters were analyzed to determine the characteristics of drum contents as either hazardous or non-hazardous waste, based on EPA guidance and regulations promulgated under 40 CFR Part 261 Subsection C. Additional analysis of the drum waste material included TPH-fingerprinting of oil contents to match the waste oils to a known substance. Laboratory analytical data Form 1's are provided in Appendix E.

Results of the analytical testing procedures identified waste sludge material contained in the drums from all three AOCs as hazardous waste for PCBs (exceeded TSCA regulatory limit: > 50 milligrams per kilogram (mg/kg) (Table 5, Figures 6A and 6B). Analytical results indicated that the primary PCB detected in drum waste samples was Aroclor 1242. Aroclor 1242 is a mixture of mono- through hepta-chlorinated homologs with 42 percent chlorine by mass in the PCB mixture. It was used primarily in electrical equipment manufacturing in the 1950s and 1960s until the manufacture of PCBs was banned in 1979.

Waste material collected from drums in AOC02 were also characteristic hazardous for lead (> 5.0 milligrams per liter [mg/L]) and TCE (> 0.5 mg/L) (Table 2, Figure 6A). TPH-fingerprinting results indicated that waste oils from one drum removed from AOC04 contained SAE 10W-40 motor oil. All other TPH-fingerprinting results were inconclusive for a positive match.

3.2 ROLL-OFF DECONTAMINATION AND SAMPLING RESULTS

Two roll-offs that contained sludge and one roll-off that contained accumulated water were decontaminated in accordance with Section 2.5 using steam-pressure washing and water brought from an offsite location. Decontamination fluid was discharged to the ground surface. Wipe samples were collected from the two roll-offs that previously contained sludge and submitted to TestAmerica Laboratories, Inc. for PCB analysis by EPA Method 8082. An aqueous sludge/water sample was collected from the accumulated water in one roll-off and submitted for VOC analysis by EPA Method 8260B and PCB analysis by EPA Method 8082. Based on the sludge/water analytical data, the accumulated water in one roll-off was discharged to the ground surface. Any sludge remaining in the roll-off was transferred to a drum prior to decontamination.

The analytical results of the aqueous sludge/water and wipe samples collected from the roll-offs are summarized in Table 7. The laboratory analytical report is provided in Appendix E. Results of the aqueous sample identified Aroclor 1248 as the only PCB present in the accumulated water.

A total of four VOCs (i.e, 1,1,1-trichloroethane, 1,1-dichloroethane, *cis*-1,2-dichloroethene, and trichloroethene) were also detected in the accumulated water. Aroclor 1254 was the only PCB detected in wipe samples collected from a single roll-off. PCBs were not detected in wipe samples collected from the second roll-off. The presence of Aroclor 1248 in the aqueous sludge/water sample and Aroclor 1254 in the wipe samples from one roll-off correlated with existing site data (i.e., Aroclors 1248 and 1254 were also identified in drum waste samples).

Following roll-off sampling and decontamination, OP-TECH coordinated removal of the five roll-offs (three from Buffalo Fuel Corp. and two from E-Tank, Ltd.) from the site.

4. CONCLUSION

Based on field investigation activities conducted during the RI, EA completed an IRM that included excavation and disposal of subsurface drums identified during geophysical survey and test-pitting activities. A total of 348 buried drums and associated material were recovered during the excavation effort, and a total of 32.75 tons of material was removed from the site. Based on waste stream analytical results, the sludge material contained in the drums was identified as hazardous waste for PCBs, lead, and TCE. Recovered drums and associated material were transported offsite and disposed of in accordance with all state and federal regulations.

Subsurface drum removal and disposal was based on the initial geophysical survey and associated test pitting. Given the distribution and number of drums identified across the site subsequent to the geophysical survey, it is likely that additional subsurface drums may be present onsite. A supplemental geophysical survey biased to known drum disposal areas may aid in the identification of any remaining subsurface drums.

Figures

Legend

5565 River Road Site

Miles

0 0.5 1

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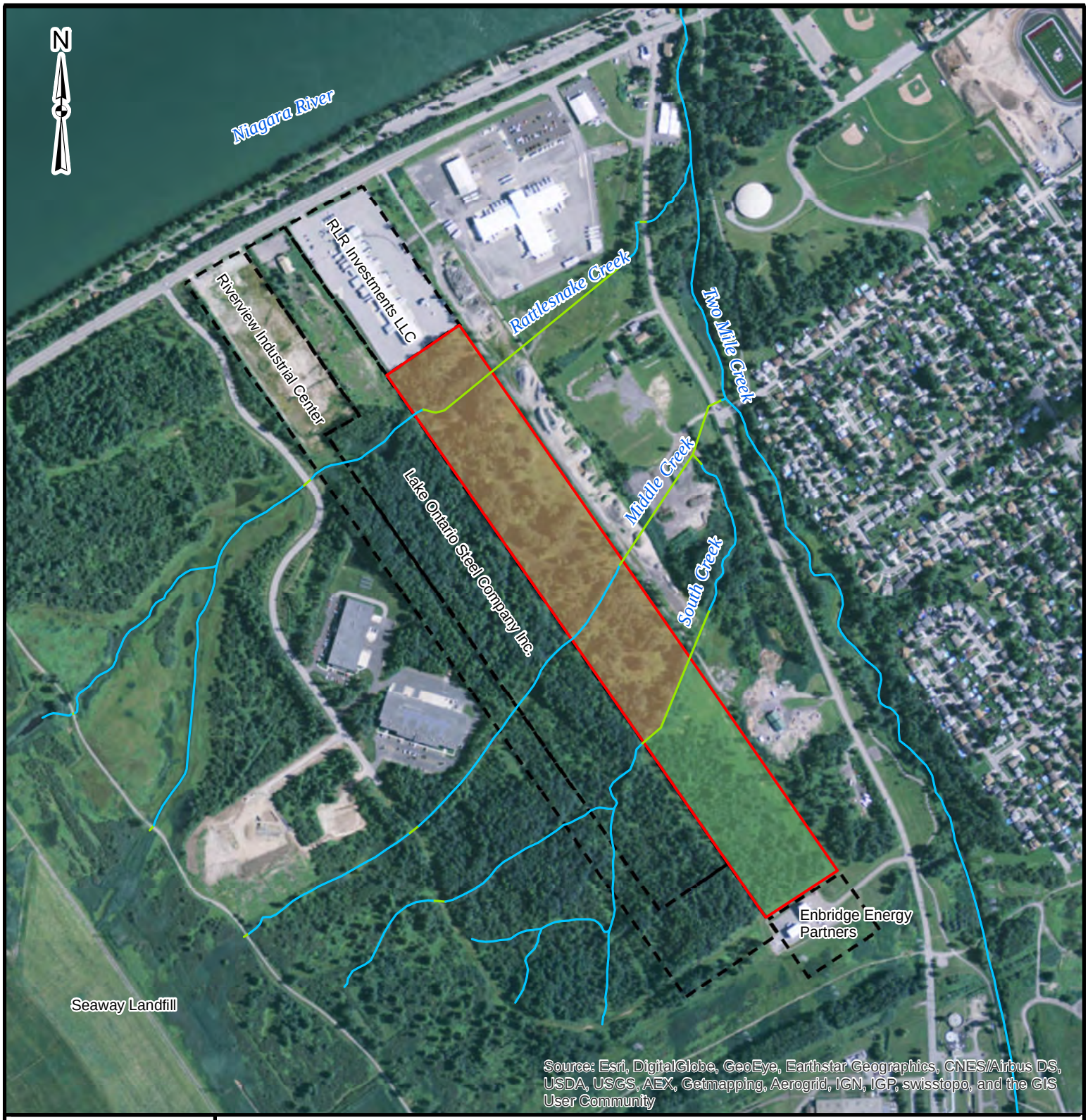
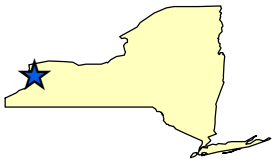
INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 1
SITE LOCATION

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE1.MXD





Legend

- 5565 River Road Site
- 5565 River Road Northern Portion (24 acres)
- 5565 River Road Southern Portion (13 acres)
- Open Surface Water Channel
- Surface Water Conduit/Culvert

Yards: 0 — 250 — 500

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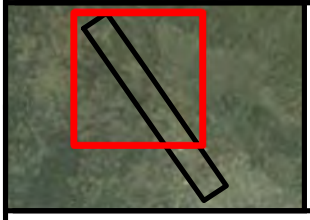
INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE2.MXD



Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Point of Interest
- Area of Concern

0 300 Feet

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5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 3
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
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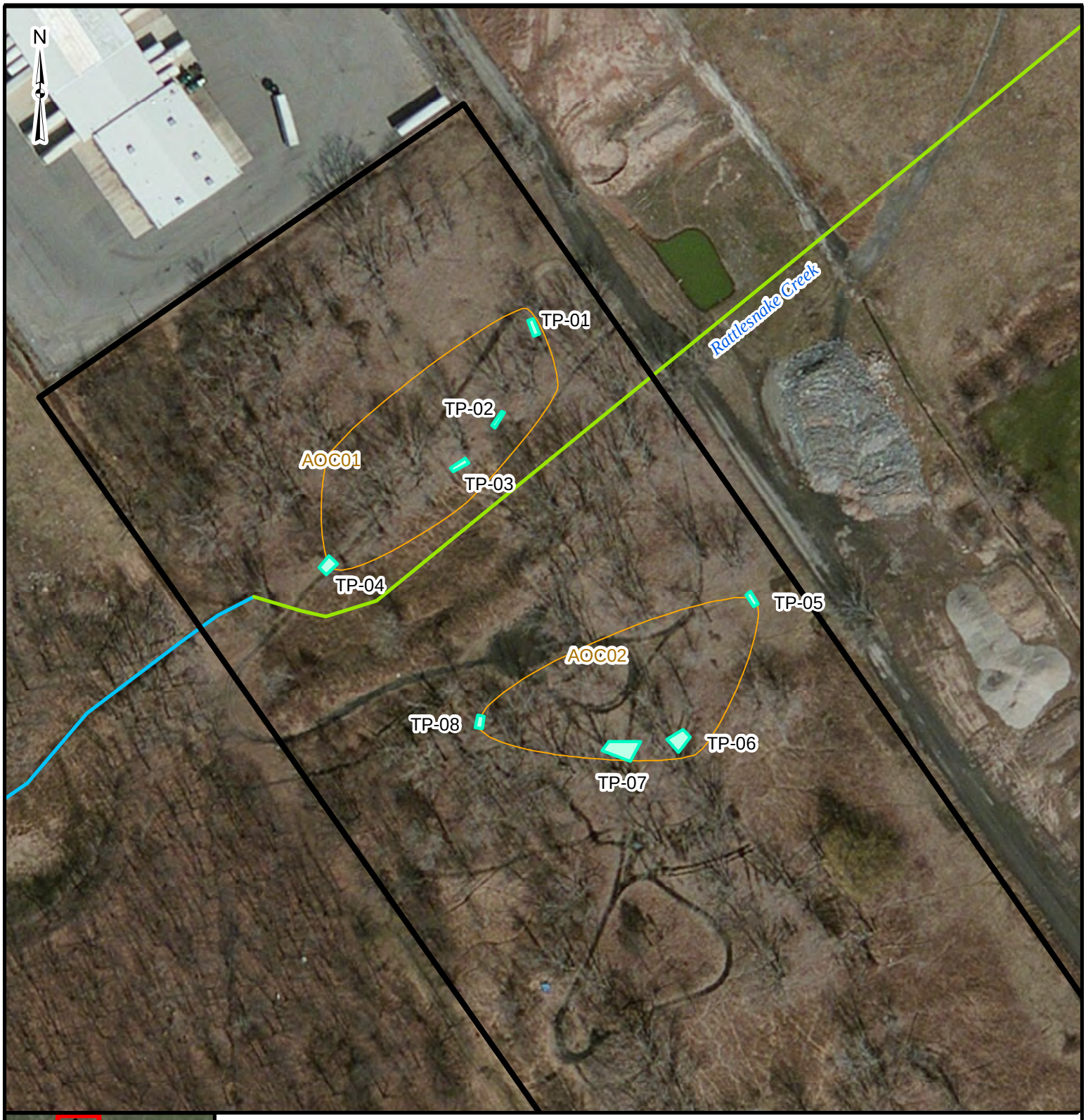

Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Test Pit Location
- Area of Concern

0 150 Feet

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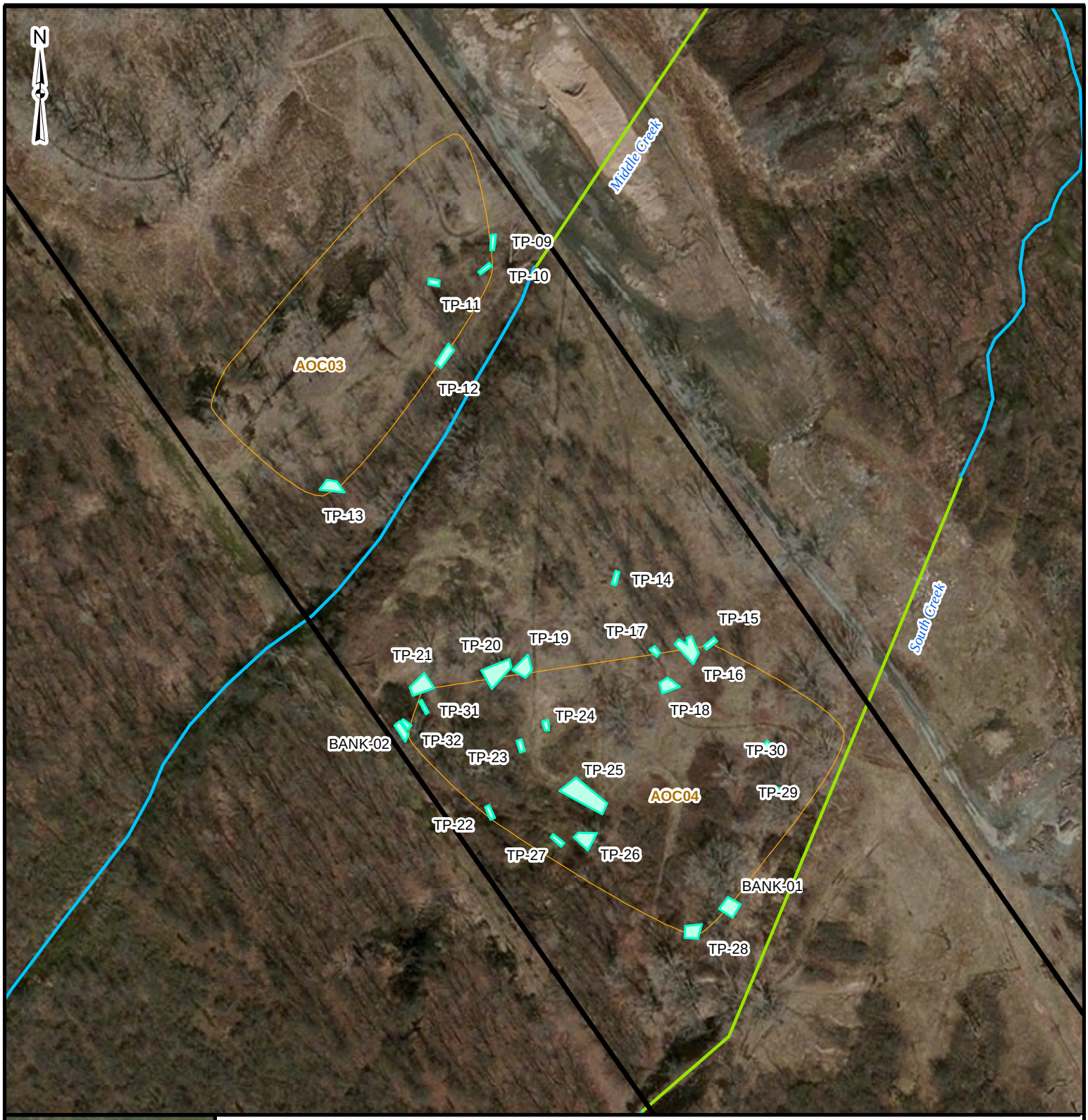
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 4A
DRUM REMOVAL TEST PITS (NORTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE4A.MXD



Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Test Pit Location
- Area of Concern

0 200 Feet

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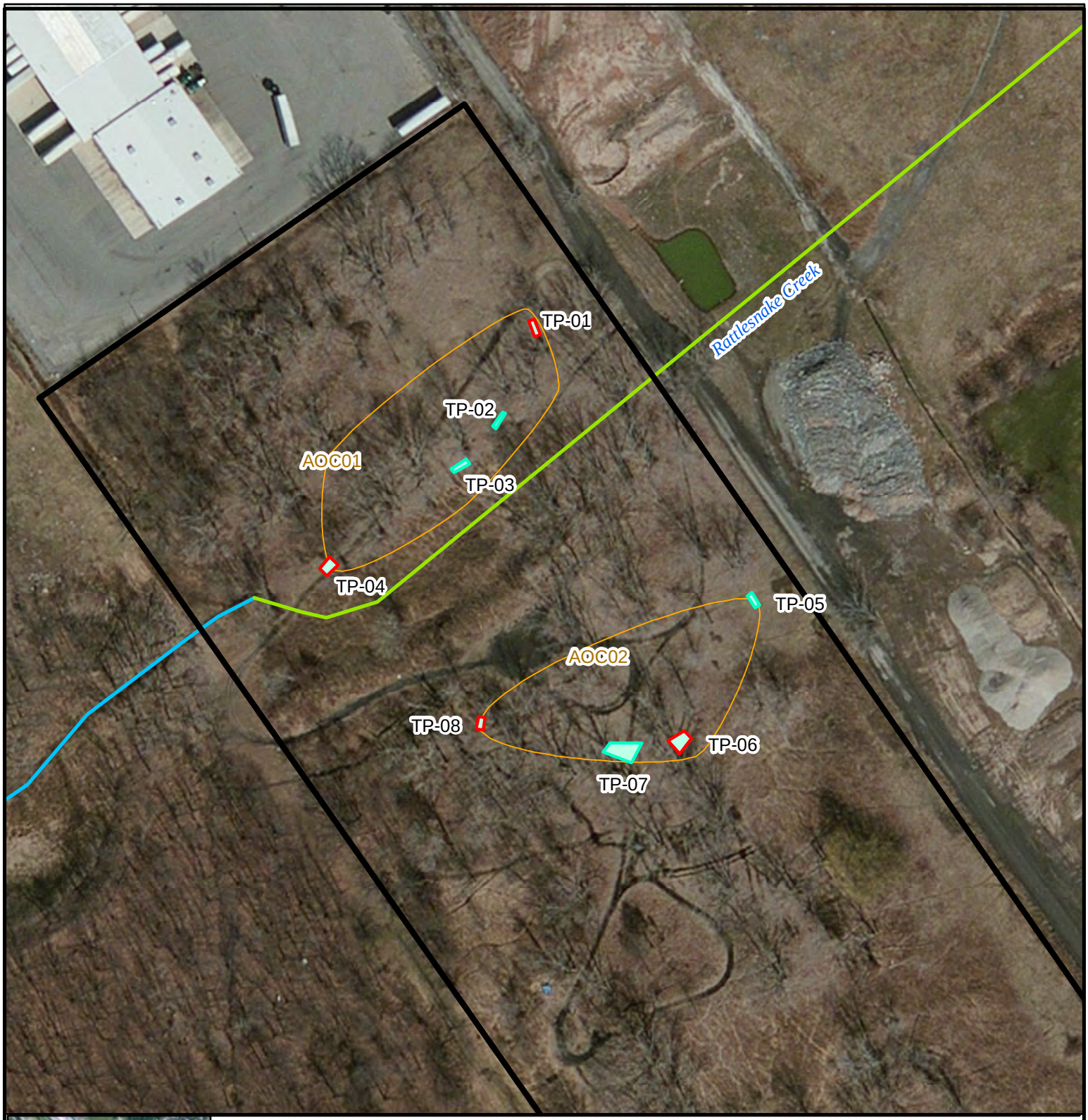
INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 4B
DRUM REMOVAL TEST PITS (SOUTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE4B.MXD



Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Test Pit Location
- Test Pit Location - Sample Collected
- Area of Concern

0 150 Feet

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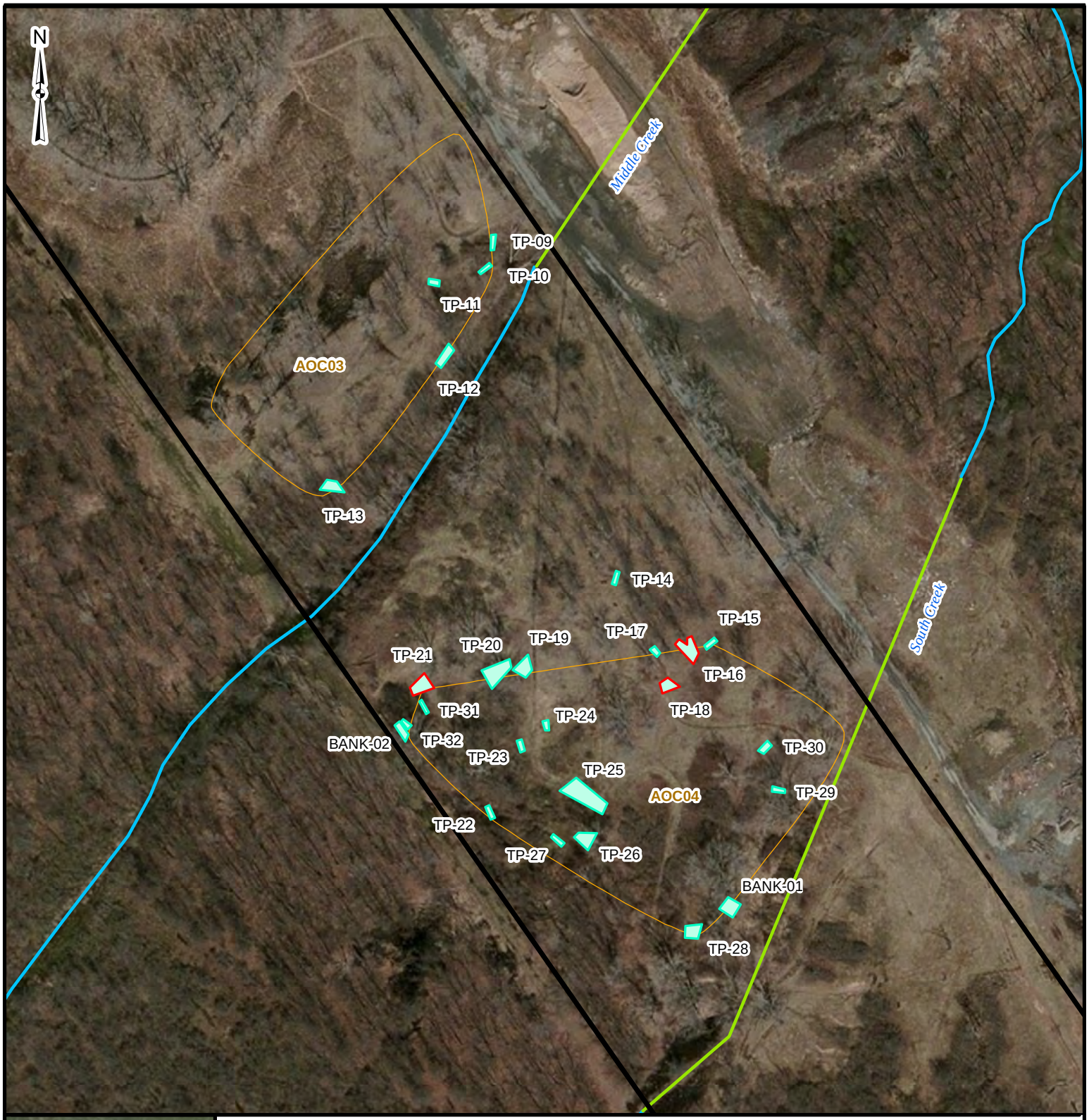
INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 5A
DRUM WASTE SAMPLE
LOCATIONS (NORTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE5A.MXD



Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Test Pit Location
- Test Pit Location - Sample Collected
- Area of Concern

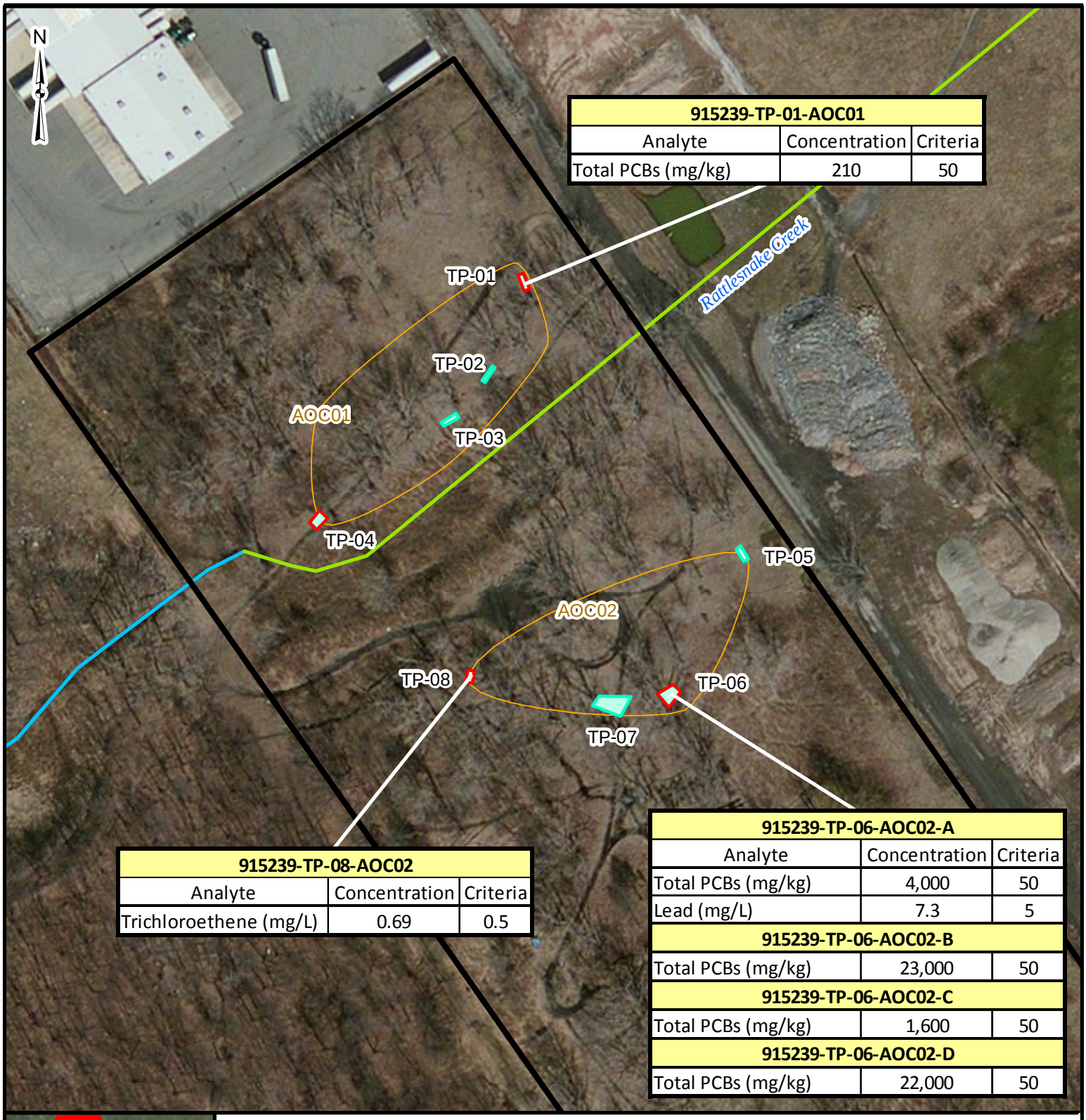
0 200 Feet

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 5B
DRUM WASTE SAMPLE
LOCATIONS (SOUTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE5B.MXD



915239-TP-01-AOC01		
Analyte	Concentration	Criteria
Total PCBs (mg/kg)	210	50

915239-TP-08-AOC02		
Analyte	Concentration	Criteria
Trichloroethene (mg/L)	0.69	0.5

915239-TP-06-AOC02-A		
Analyte	Concentration	Criteria
Total PCBs (mg/kg)	4,000	50
Lead (mg/L)	7.3	5
915239-TP-06-AOC02-B		
Total PCBs (mg/kg)	23,000	50
915239-TP-06-AOC02-C		
Total PCBs (mg/kg)	1,600	50
915239-TP-06-AOC02-D		
Total PCBs (mg/kg)	22,000	50

Legend

- 5565 River Road Boundary
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Test Pit Location
- Test Pit Location - Sample Collected
- Area of Concern

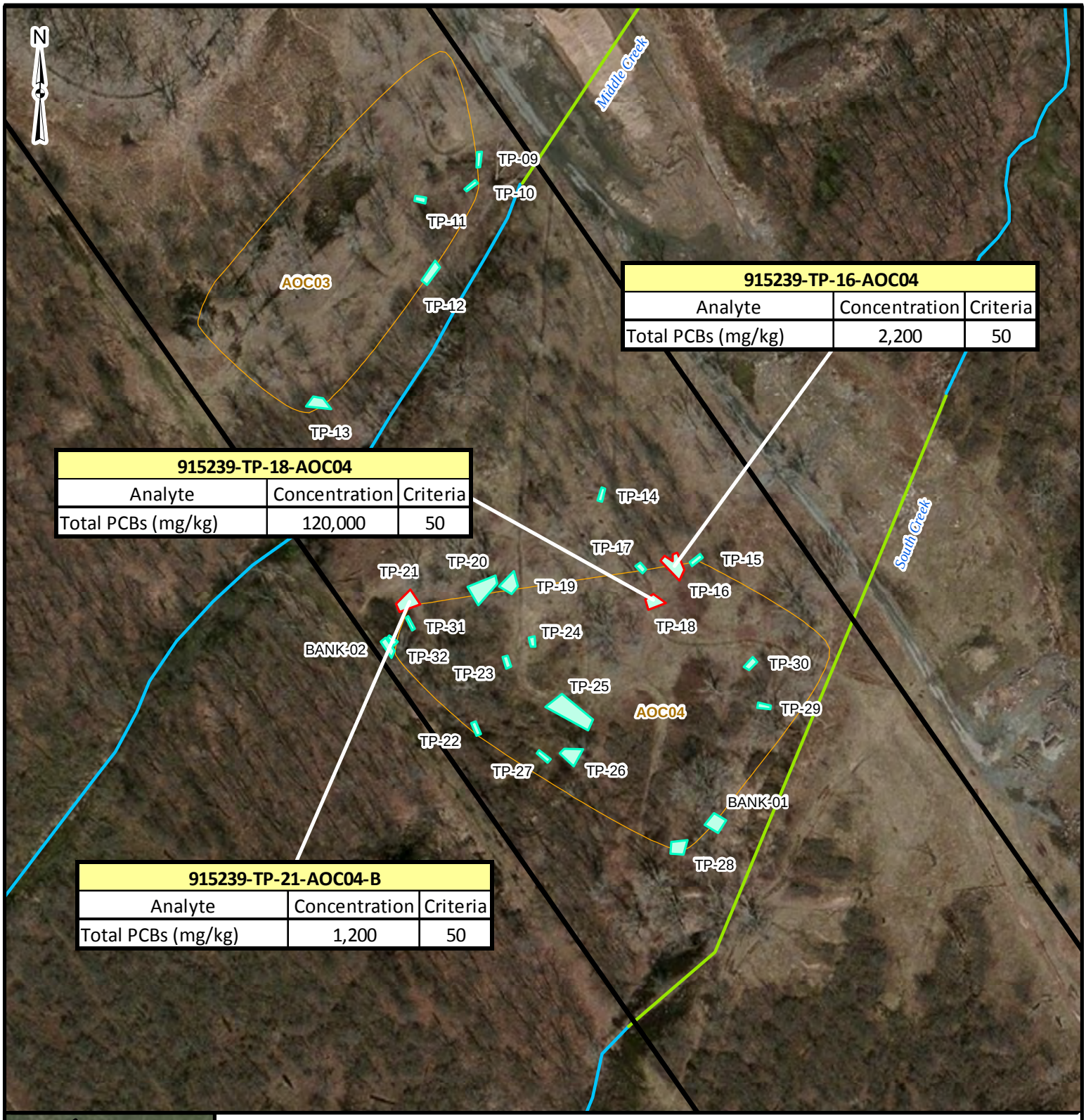
0 150 Feet

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 6A
DRUM WASTE - HAZARDOUS WASTE CHARACTERIZATION (NORTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE6A.MXD



NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

INTERIM REMEDIAL MEASURE COMPLETION REPORT
5565 RIVER ROAD (915239)
TONAWANDA, NEW YORK

FIGURE 6B
DRUM WASTE - HAZARDOUS WASTE CHARACTERIZATION (SOUTH)

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	MAY 2016	14907.21	GIS/PROJECTS/ FIGURE6B.MXD

Tables

Table 1 Drum Removal Summary

AOC ID	Test Pit ID	Number of Drums Removed	Number of Drums Sampled	Total Drums per AOC
AOC 01	TP-01-AOC01	0	1	13
	TP-02-AOC01	10		
	TP-03-AOC01	0		
	TP-04-AOC01	3	1	
AOC 02	TP-05-AOC02	0		56
	TP-06-AOC02	17	4	
	TP-07-AOC02	31		
	TP-08-AOC02	8	1	
AOC 03	TP-09-AOC03	0		11
	TP-10-AOC03	1		
	TP-11-AOC03	2		
	TP-12-AOC03	4		
	TP-13-AOC03	4		
AOC 04	TP-14-AOC04	0		268
	TP-15-AOC04	0		
	TP-16-AOC04	16	1	
	TP-17-AOC04	0		
	TP-18-AOC04	17	1	
	TP-19-AOC04	16		
	TP-20-AOC04	34		
	TP-21-AOC04	32	2	
	TP-22-AOC04	0		
	TP-23-AOC04	1		
	TP-24-AOC04	0		
	TP-25-AOC04	67		
	TP-26-AOC04	20		
	TP-27-AOC04	0		
	TP-28-AOC04	9		
	TP-29-AOC04	0		
	TP-30-AOC04	2		
	TP-31-AOC04	1		
	TP-32-AOC04	0		
	TP-Bank-01	29		
	TP-Bank-02	24		

NOTE: AOC = Area of Concern
ID = Identification

Table 2 Drum Waste Characterization Results

Parameters List	Sample ID	915239-TP-01-AOC01		915239-TP-04-AOC01		915239-TP-06-AOC02-A		915239-TP-06-AOC02-C		915239-TP-08-AOC02		915239-TP-16-AOC04		915239-TP-21-AOC04-B		TCLP Regulatory Levels (mg/L)
	Lab ID	AC75417-001		AC75417-002		AC75417-003		AC75417-005		AC75417-010		AC75493-001		AC75493-004		
	Sample Type	TCLP		TCLP		TCLP		TCLP		TCLP		TCLP		TCLP		
	Sample Date	10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/25/2013		10/29/2013		10/30/2013		
EPA METHOD 8082																
Aroclor (Total)	(mg/L)	0.0048		0.022		46		8.1		(<0.0025)	U	14		41		N/A
Aroclor-1016	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1221	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1232	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1242	(mg/L)	0.0048		(<0.0025)	U	46		8.1		(<0.0025)	U	14		41		N/A
Aroclor-1248	(mg/L)	(<0.0025)	U	0.022		(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1254	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1260	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1262	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
Aroclor-1268	(mg/L)	(<0.0025)	U	(<0.0025)	U	(<2.5)	U	(<0.25)	U	(<0.0025)	U	(<0.25)	U	(<2.5)	U	N/A
EPA METHOD 7470A/6010																
Mercury	(mg/L)	(<0.0007)	U	(<0.0007)	U	(<0.0007)	U	(<0.0007)	U	(<0.0007)	U	(<0.0007)	U	(<0.0007)	U	0.2
Arsenic	(mg/L)	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	5.0
Barium	(mg/L)	0.51		0.58		0.36		0.42		0.28		0.55		(<0.25)	U	100
Cadmium	(mg/L)	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	1.0
Chromium	(mg/L)	0.13		(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	5.0
Lead	(mg/L)	(<0.05)	U	2.4		**7.3**		2.9		0.45		2.3		1.9		5.0
Nickel	(mg/L)	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	N/A
Selenium	(mg/L)	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	(<0.1)	U	1.0
Silver	(mg/L)	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	(<0.05)	U	5.0
EPA METHOD 8270C																
2,4,5-Trichlorophenol	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	400
2,4,6-Trichlorophenol	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	2.0
2,4-Dinitrotoluene	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	0.13
2-Methylphenol	(mg/L)	(<0.002)	U	(<0.002)	U	(<0.015)	U	(<0.015)	U	(<0.002)	U	(<0.035)	U	(<0.025)	U	N/A
3&4-Methylphenols	(mg/L)	(<0.002)	U	(<0.002)	U	(<0.015)	U	(<0.015)	U	(<0.002)	U	(<0.035)	U	0.11		N/A
Hexachlorobenzene	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	0.13
Hexachlorobutadiene	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	0.5
Hexachloroethane	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	3.0
Nitrobenzene	(mg/L)	(<0.008)	U	(<0.008)	U	(<0.06)	U	(<0.06)	U	(<0.008)	U	(<0.14)	U	(<0.1)	U	2.0
Pentachlorophenol	(mg/L)	(<0.04)	U	(<0.04)	U	(<0.3)	U	(<0.3)	U	(<0.04)	U	(<0.7)	U	(<0.5)	U	100
Pyridine	(mg/L)	(<0.04)	U	(<0.04)	U	(<0.3)	U	(<0.3)	U	(<0.04)	U	(<0.7)	U	(<0.5)	U	5.0
EPA METHOD 8260B																
1,1-Dichloroethene	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	0.7
1,2-Dichloroethane	(mg/L)	(<0.0005)	U	(<0.0005)	U	(<0.0005)	U	(<0.0005)	U	(<0.01)	U	(<0.0005)	U	0.0056		0.5
1,4-Dichlorobenzene	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	7.5
2-Butanone	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	0.015		0.63		N/A
Benzene	(mg/L)	(<0.0005)	U	(<0.0005)	U	(<0.0005)	U	(<0.0005)	U	(<0.01)	U	0.00092		(<0.0025)	U	0.5
Carbon tetrachloride	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	0.5
Chlorobenzene	(mg/L)	0.0012		(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	100
Chloroform	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	6.0
Tetrachloroethene	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	0.05		(<0.001)	U	(<0.005)	U	0.7
Trichloroethene	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	**0.69**		(<0.001)	U	(<0.005)	U	0.5
Vinyl Chloride	(mg/L)	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.001)	U	(<0.02)	U	(<0.001)	U	(<0.005)	U	0.2

NOTE:
ID = Identification
TCLP = Toxicity Characteristic Leaching Procedure
mg/L = milligrams per Liter = parts per million
EPA = United States Environmental Protection Agency
U = Analyzed but not reported at a concentration above the reporting limit. Sample reporting limits are shown as (<____).
N/A = Not Available
Bold values indicate exceedance of associated TCLP Regulatory Level
Analytical results were reported by HamptonClarke-Veritech Laboratories

Table 3 Summary of Detected Semi-volatile Organic Compounds in Drum Waste Samples

Parameters List EPA Method 8270C	Sample ID	915239-TP-01-AOC01		915239-TP-04-AOC01		915239-TP-06-AOC02-A		915239-TP-06-AOC02-B		915239-TP-06-AOC02-C		915239-TP-06-AOC02-D	
	Lab ID	AC75417-001		AC75417-002		AC75417-003		AC75417-004		AC75417-005		AC75417-008	
	Sample Type	Sludge		Sludge		Sludge		Oil		Sludge		Oil	
	Sample Date	10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013	
1,1'-Biphenyl	(mg/kg)	(<0.95)	U	0.093		(<38)	U	(<60)	U	(<29)	U	(<60)	U
2,4-Dimethylphenol	(mg/kg)	0.39		0.039		(<9.6)	U	(<15)	U	(<7.1)	U	(<15)	U
2-Methylnaphthalene	(mg/kg)	3.0		0.44		(<38)	U	91		(<29)	U	210	
2-Methylphenol	(mg/kg)	(<0.24)	U	0.028		(<9.6)	U	(<15)	U	(<7.1)	U	(<15)	U
3&4-Methylphenol	(mg/kg)	0.74		0.069		(<9.6)	U	(<15)	U	(<7.1)	U	(<15)	U
Acenaphthene	(mg/kg)	6.7		0.094		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Benzo[a]anthracene	(mg/kg)	3.3		0.17		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Benzo[a]pyrene	(mg/kg)	1.2		0.14		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Benzo[b]fluoranthene	(mg/kg)	2.9		0.3		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Benzo[g,h,i]perylene	(mg/kg)	(<0.95)	U	0.13		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Benzo[k]fluoranthene	(mg/kg)	(<0.95)	U	0.081		(<38)	U	(<60)	U	(<29)	U	(<60)	U
bis(2-Ethylhexyl)phthalate	(mg/kg)	4.9		0.4		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Carbazole	(mg/kg)	1.2		(<0.048)	U	(<38)	U	(<60)	U	(<29)	U	(<60)	U
Chrysene	(mg/kg)	3.6		0.2		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Dibenzofuran	(mg/kg)	5.1		0.094		(<9.6)	U	(<15)	U	(<7.1)	U	(<15)	U
Di-n-butylphthalate	(mg/kg)	(<0.48)	U	(<0.024)	U	(<19)	U	92		(<14)	U	100	
Di-n-octylphthalate	(mg/kg)	(<0.95)	U	(<0.048)	U	(<38)	U	(<60)	U	(<29)	U	(<60)	U
Fluoranthene	(mg/kg)	9.3		0.21		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Fluorene	(mg/kg)	8.7		0.056		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Indeno[1,2,3-cd]pyrene	(mg/kg)	(<0.95)	U	0.11		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Naphthalene	(mg/kg)	2.5		0.29		(<9.6)	U	52		(<7.1)	U	81	
Phenanthrene	(mg/kg)	30		0.31		(<38)	U	(<60)	U	(<29)	U	(<60)	U
Pyrene	(mg/kg)	14		0.38		50		(<60)	U	48		(<60)	U

NOTE:
EPA = U.S. Environmental Protection Agency
ID = Identification
mg/kg = milligrams per kilogram = parts per million (ppm)
U = Analyzed but not reported at a concentration above the reporting limit. Sample quantitation limits are shown as (<___).
Analytical results were reported by Hampton Clarke - Veritech.

Table 3 Summary of Detected Semi-volatile Organic Compounds in Drum Waste Samples

Parameters List EPA Method 8270C	Sample ID	915239-TP-DUPLICATE-01[(a)]		915239-TP-08-AOC02		915239-TP-16-AOC04		915239-TP-18-AOC04		915239-TP-21-AOC04-A		915239-TP-21-AOC04-B	
	Lab ID	AC75417-009		AC75417-010		AC75493-001		AC75493-002		AC75493-003		AC75493-004	
	Sample Type	Sludge		Sludge		Sludge		Sludge		Oil		Sludge	
	Sample Date	10/24/2013		10/25/2013		10/29/2013		10/29/2013		10/29/2013		10/30/2013	
1,1'-Biphenyl	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	21		(<20)	U	(<22)	U
2,4-Dimethylphenol	(mg/kg)	(<7.8)	U	(<0.057)	U	(<4.8)	U	(<5)	U	(<5)	U	(<5.5)	U
2-Methylnaphthalene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	46	
2-Methylphenol	(mg/kg)	(<7.8)	U	(<0.057)	U	(<4.8)	U	(<5)	U	(<5)	U	(<5.5)	U
3&4-Methylphenol	(mg/kg)	(<7.8)	U	(<0.057)	U	(<4.8)	U	(<5)	U	(<5)	U	(<5.5)	U
Acenaphthene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	47		(<20)	U	(<22)	U
Benzo[a]anthracene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
Benzo[a]pyrene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	40		(<22)	U
Benzo[b]fluoranthene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
Benzo[g,h,i]perylene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
Benzo[k]fluoranthene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
bis(2-Ethylhexyl)phthalate	(mg/kg)	(<31)	U	6.7		25		(<20)	U	(<20)	U	39	
Carbazole	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
Chrysene	(mg/kg)	(<31)	U	(<0.23)	U	19		25		25		(<22)	U
Dibenzofuran	(mg/kg)	(<7.8)	U	0.06		(<4.8)	U	5.5		(<5)	U	(<5.5)	U
Di-n-butylphthalate	(mg/kg)	(<16)	U	4.2		(<9.6)	U	170		32		(<11)	U
Di-n-octylphthalate	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	21		(<22)	U
Fluoranthene	(mg/kg)	(<31)	U	(<0.23)	U	22		35		25		(<22)	U
Fluorene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	20		(<20)	U	31	
Indeno[1,2,3-cd]pyrene	(mg/kg)	(<31)	U	(<0.23)	U	(<19)	U	(<20)	U	(<20)	U	(<22)	U
Naphthalene	(mg/kg)	(<7.8)	U	(<0.057)	U	(<4.8)	U	6.6		(<5)	U	13	
Phenanthrene	(mg/kg)	(<31)	U	(<0.23)	U	44		(<20)	U	76		110	
Pyrene	(mg/kg)	48		(<0.23)	U	34		40		22		27	

(a) Duplicate sample was collected from 915239-TP-06-AOC02-A.

Table 4 Summary of Detected Target Analyte List Metals in Drum Waste Samples

Parameters List EPA Method 6010B/7471	Sample ID	915239-TP-01-AOC01		915239-TP-04-AOC01		915239-TP-06-AOC02-A		915239-TP-06-AOC02-B		915239-TP-06-AOC02-C		915239-TP-06-AOC02-D	
	Lab ID	AC75417-001		AC75417-002		AC75417-003		AC75417-004		AC75417-005		AC75417-008	
	Sample Type	Sludge		Sludge		Sludge		Oil		Sludge		Oil	
	Sample Date	10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013	
Aluminum	(mg/kg)	4,300		3,000		750		(<200)	U	740		(<200)	U
Antimony	(mg/kg)	8.0		5.7	U	8.9		(<4)	U	19		(<4)	U
Arsenic	(mg/kg)	(<5.7)	U	(<5.7)	U	(<4.6)	U	(<4)	U	(<5.7)	U	(<4)	U
Barium	(mg/kg)	70		63		2,700		(<10)	U	2,900		(<10)	U
Cadmium	(mg/kg)	(<1.7)	U	(<1.7)	U	1.4		(<1.2)	U	(<1.7)	U	(<1.2)	U
Calcium	(mg/kg)	22,000		14,000		2,200		(<1000)	U	1,900		(<1000)	U
Chromium	(mg/kg)	260		78		65		(<5)	U	85		(<5)	U
Cobalt	(mg/kg)	8.5		4.5		4.7		(<2.5)	U	7.2		(<2.5)	U
Copper	(mg/kg)	120		61		630		(<5)	U	300		(<5)	U
Iron	(mg/kg)	68,000		46,000		3,400		220		17,000		400	
Lead	(mg/kg)	30		34		18,000		27		20,000		260	
Magnesium	(mg/kg)	1,600		2,600		(<570)	U	(<500)	U	(<710)	U	(<500)	U
Manganese	(mg/kg)	1,500		1,100		29		(<10)	U	88		(<10)	U
Mercury	(mg/kg)	(<0.12)	U	(<0.12)	U	1.4		(<0.083)	U	1.8		(<0.083)	U
Nickel	(mg/kg)	75		30		7.7		(<5)	U	19		(<5)	U
Silver	(mg/kg)	(<2.1)	U	(<2.1)	U	3.8		(<1.5)	U	3.0		(<1.5)	U
Vanadium	(mg/kg)	17		(<14)	U	(<11)	U	(<10)	U	(<14)	U	(<10)	U
Zinc	(mg/kg)	150		69		150		(<20)	U	160		(<20)	U

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
mg/kg = milligrams per kilogram = parts per million (ppm)
U = Analyzed but not reported at a concentration above the reporting limit. Sample quantitation limits are shown as (<___).
Analytical results were reported by Hampton Clarke - Veritech.

Table 4 Summary of Detected Target Analyte List Metals in Drum Waste Samples

Parameters List EPA Method 6010B/7471	Sample ID	915239-TP-DUPLICATE-01[a]		915239-TP-08-AOC02		915239-TP-16-AOC04		915239-TP-18-AOC04		915239-TP-21-AOC04-A		915239-TP-21-AOC04-B	
	Lab ID	AC75417-009		AC75417-010		AC75493-001		AC75493-002		AC75493-003		AC75493-004	
	Sample Type	Sludge		Sludge		Sludge		Sludge		Oil		Sludge	
	Sample Date	10/24/2013		10/25/2013		10/29/2013		10/29/2013		10/29/2013		10/30/2013	
Aluminum	(mg/kg)	490		1,100		590		310		(<200)	U	900	
Antimony	(mg/kg)	14		(<5.5)	U	86		15		(<4)	U	18	
Arsenic	(mg/kg)	(<4.7)	U	21		(<5.7)	U	(<4.0)	U	(<4)	U	(<5.3)	U
Barium	(mg/kg)	2,800		24		3,200		22		17		3,900	
Cadmium	(mg/kg)	(<1.4)	U	(<1.6)	U	(<1.7)	U	(<1.2)	U	(<1.2)	U	(<1.6)	U
Calcium	(mg/kg)	(<1,200)	U	2,800		6,700		1,000		(<1000)	U	2,700	
Chromium	(mg/kg)	66		40		220		140		(<5)	U	83	
Cobalt	(mg/kg)	4.7		(<3.4)	U	7.6		(<2.5)	U	(<2.5)	U	4.2	
Copper	(mg/kg)	270		350		180		41		(<5)	U	520	
Iron	(mg/kg)	7,600		5,400		38,000		8,800		(<200)	U	3,900	
Lead	(mg/kg)	18,000		230		38,000		1,000		(<5)	U	11,000	
Magnesium	(mg/kg)	(<590)	U	(<680)	U	(<710)	U	(<500)	U	(<500)	U	(<660)	U
Manganese	(mg/kg)	28		67		250		100		(<10)	U	51	
Mercury	(mg/kg)	1.1		(<0.11)	U	2.0		(<0.083)	U	(<0.083)	U	1.8	
Nickel	(mg/kg)	5.9		13		21		14		(<5)	U	10	
Silver	(mg/kg)	4.2		2.1	U	(<2.1)	U	(<1.5)	U	(<1.5)	U	3.2	
Vanadium	(mg/kg)	(<12)	U	(<14)	U	(<14)	U	(<10)	U	(<10)	U	(<13)	U
Zinc	(mg/kg)	25		22		51		87		(<20)	U	150	

(a) Duplicate sample was collected from 915239-TP-06-AOC02-A.

Table 5 Summary of Detected Polychlorinated Biphenyls in Drum Waste Samples

Parameters List EPA Method 8082A	Sample ID	915239-TP-01-AOC01		915239-TP-04-AOC01		915239-TP-06-AOC02-A		915239-TP-06-AOC02-B		915239-TP-06-AOC02-C		915239-TP-06-AOC02-D	
	Lab ID	AC75417-001		AC75417-002		AC75417-003		AC75417-004		AC75417-005		AC75417-008	
	Sample Type	Sludge		Sludge		Sludge		Oil		Sludge		Oil	
	Sample Date	10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013	
Aroclor-1242	(mg/kg)	**210**		(<0.71)	U	**4,000**		**23,000**		**1,600**		**22,000**	
Aroclor-1248	(mg/kg)	(<3.6)	U	31		(<140)	U	(<500)	U	(<36)	U	(<500)	U
Aroclor-1254	(mg/kg)	(<3.6)	U	(<0.71)	U	(<140)	U	(<500)	U	(<36)	U	(<500)	U
Aroclor-1262	(mg/kg)	(<3.6)	U	(<0.71)	U	(<140)	U	(<500)	U	(<36)	U	(<500)	U
Aroclor (Total)	(mg/kg)	**210**		31		**4,000**		**23,000**		**1,600**		**22,000**	

Parameters List EPA Method 8082A	Sample ID	915239-TP-DUPLICATE-01[a]		915239-TP-08-AOC02		915239-TP-16-AOC04		915239-TP-18-AOC04		915239-TP-21-AOC04-A		915239-TP-21-AOC04-B	
	Lab ID	AC75417-009		AC75417-010		AC75493-001		AC75493-002		AC75493-003		AC75493-004	
	Sample Type	Sludge		Sludge		Sludge		Sludge		Oil		Sludge	
	Sample Date	10/24/2013		10/25/2013		10/29/2013		10/29/2013		10/29/2013		10/30/2013	
Aroclor-1242	(mg/kg)	**1,900**		(<0.034)	U	**2,200**		**120,000**		(<5)	U	**1,200**	
Aroclor-1248	(mg/kg)	(<29)	U	(<0.034)	U	(<36)	U	(<36)	U	(<5)	U	(<33)	U
Aroclor-1254	(mg/kg)	(<29)	U	0.28		(<36)	U	(<36)	U	(<5)	U	(<33)	U
Aroclor-1262	(mg/kg)	(<29)	U	0.25		(<36)	U	(<36)	U	(<5)	U	(<33)	U
Aroclor (Total)	(mg/kg)	**1,900**		0.53		**2,200**		**120,000**		(<5)	U	**1,200**	

(a) Duplicate sample was collected from 915239-TP-06-AOC02-A.

NOTE: EPA = U.S. Environmental Protection Agency
ID = Identification
mg/kg = milligrams per kilogram = parts per million (ppm)
U = Analyzed but not reported at a concentration above the reporting limit. Sample quantitation limits are shown as (<___).
Bold values indicate exceedance of TSCA Regulatory Level (>50 mg/kg)
Analytical results were reported by Hampton Clarke - Veritech.

Table 6 Summary of Detected Volatile Organic Compounds in Drum Waste Samples

Parameters List EPA Method 8260C	Sample ID	915239-TP-01-AOC01		915239-TP-04-AOC01		915239-TP-06-AOC02-A		915239-TP-06-AOC02-B		915239-TP-06-AOC02-C		915239-TP-06-AOC02-D	
	Lab ID	AC75417-001		AC75417-002		AC75417-003		AC75417-004		AC75417-005		AC75417-008	
	Sample Type	Sludge		Sludge		Sludge		Oil		Sludge		Oil	
	Sample Date	10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013		10/24/2013	
1,1,1-Trichloroethane	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,1,2-Trichloroethane	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,1-Dichloroethane	(mg/kg)	1.4		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,2-Dichlorobenzene	(mg/kg)	0.6		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,2-Dichloroethane	(mg/kg)	(<0.071)	U	(<0.0014)	U	(<0.0011)	U	(<2.5)	U	(<0.0014)	U	(<2.5)	U
1,3-Dichlorobenzene	(mg/kg)	0.45		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,4-Dichlorobenzene	(mg/kg)	1.3		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
1,4-Dioxane	(mg/kg)	19		(<0.14)	U	(<0.11)	U	(<250)	U	(<0.14)	U	(<250)	U
2-Butanone	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
Acetone	(mg/kg)	(<1.4)	U	(<0.014)	U	(<0.011)	U	(<50)	U	0.69		(<49)	U
Benzene	(mg/kg)	0.37		(<0.0014)	U	(<0.0011)	U	(<2.5)	U	(<0.0014)	U	(<2.5)	U
Carbon disulfide	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	0.0035		(<4.9)	U
Chlorobenzene	(mg/kg)	1.7		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
cis-1,2-Dichloroethene	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
Cyclohexane	(mg/kg)	0.160		(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	13	
Ethylbenzene	(mg/kg)	0.24		(<0.0014)	U	(<0.0011)	U	9.5		(<0.0014)	U	8.0	
Isopropylbenzene	(mg/kg)	0.16		(<0.0014)	U	(<0.0011)	U	(<5)	U	(<0.0014)	U	(<4.9)	U
m&p-Xylenes	(mg/kg)	0.78		(<0.0014)	U	(<0.0011)	U	36		(<0.0014)	U	32	
Methylcyclohexane	(mg/kg)	0.44		(<0.0029)	U	(<0.0023)	U	430		(<0.0029)	U	380	
o-Xylene	(mg/kg)	0.35		(<0.0014)	U	(<0.0011)	U	15		(<0.0014)	U	12	
Tetrachloroethene	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
Toluene	(mg/kg)	0.62		(<0.0014)	U	(<0.0011)	U	190		(<0.0014)	U	210	
Trichloroethene	(mg/kg)	(<0.14)	U	(<0.0029)	U	(<0.0023)	U	(<5)	U	(<0.0029)	U	(<4.9)	U
Xylenes (Total)	(mg/kg)	1.13		(<0.0014)	U	(<0.0011)	U	51		(<0.0014)	U	44	

NOTE:
EPA = U.S. Environmental Protection Agency
ID = Identification
mg/kg = milligrams per kilogram = parts per million (ppm)
U = Analyzed but not reported at a concentration above the reporting limit. Sample quantitation limits are shown as (<___).
Analytical results were reported by Hampton Clarke - Veritech.

Table 6 Summary of Detected Volatile Organic Compounds in Drum Waste Samples

Parameters List EPA Method 6010B/7471	Sample ID	915239-TP-DUPLICATE-01[a]		915239-TP-08-AOC02		915239-TP-16-AOC04		915239-TP-18-AOC04		915239-TP-21-AOC04-A		915239-TP-21-AOC04-B	
	Lab ID	AC75417-009		AC75417-010		AC75493-001		AC75493-002		AC75493-003		AC75493-004	
	Sample Type	Sludge		Sludge		Sludge		Sludge		Oil		Sludge	
	Sample Date	10/24/2013		10/25/2013		10/29/2013		10/29/2013		10/29/2013		10/30/2013	
1,1,1-Trichloroethane	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	2.9	
1,1,2-Trichloroethane	(mg/kg)	(<0.0023)	U	0.33		(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
1,1-Dichloroethane	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	18	
1,2-Dichlorobenzene	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
1,2-Dichloroethane	(mg/kg)	(<0.0012)	U	(<0.14)	U	(<0.14)	U	(<0.25)	U	(<0.23)	U	0.17	
1,3-Dichlorobenzene	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
1,4-Dichlorobenzene	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
1,4-Dioxane	(mg/kg)	(<0.12)	U	(<14)	U	(<14)	U	(<25)	U	(<23)	U	(<12)	U
2-Butanone	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	14	
Acetone	(mg/kg)	(<0.012)	U	(<2.7)	U	4.9		7.5		(<4.5)	U	2.4	
Benzene	(mg/kg)	(<0.0012)	U	(<0.14)	U	(<0.14)	U	(<0.25)	U	(<0.23)	U	(<0.12)	U
Carbon disulfide	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
Chlorobenzene	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
cis-1,2-Dichloroethene	(mg/kg)	(<0.0023)	U	3.3		(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
Cyclohexane	(mg/kg)	(<0.0023)	U	(<0.27)	U	(<0.28)	U	12		(<0.45)	U	(<0.24)	U
Ethylbenzene	(mg/kg)	(<0.0012)	U	(<0.27)	U	6.2		1.8		(<0.45)	U	(<0.24)	U
Isopropylbenzene	(mg/kg)	(<0.0012)	U	(<0.27)	U	1.6		0.91		(<0.45)	U	(<0.24)	U
m&p-Xylenes	(mg/kg)	(<0.0012)	U	0.31		27		80		(<0.45)	U	(<0.24)	U
Methylcyclohexane	(mg/kg)	(<0.0023)	U	(<0.27)	U	2.4		110		(<0.45)	U	(<0.24)	U
o-Xylene	(mg/kg)	(<0.0012)	U	0.31		14		31		(<0.45)	U	(<0.24)	U
Tetrachloroethene	(mg/kg)	(<0.0023)	U	22		(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
Toluene	(mg/kg)	(<0.0012)	U	0.33		(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
Trichloroethene	(mg/kg)	(<0.0023)	U	120		(<0.28)	U	(<0.51)	U	(<0.45)	U	(<0.24)	U
Xylenes (Total)	(mg/kg)	(<0.0012)	U	0.62		41		111		(<0.45)	U	(<0.24)	U

(a) Duplicate sample was collected from 915239-TP-06-AOC02-A.

Table 7 Summary of Detected Volatile Organic Compounds and Polychlorinated Biphenyls Roll-off Samples

Parameters List EPA Method 8260B	Sample ID	BFC ROLLOFF	
	Lab ID	480-67949-1	
	Sample Type	Aqueous	
	Sample Date	9/22/2014	
	Units	µg/L	
1,1,1-trichloroethane		4.1	
1,1-dichloroethane		8.1	
cis-1,2-dichloroethene		5.1	
Trichloroethene		2.4	J

Parameters List EPA Method 8082	Sample ID	BFC ROLLOFF		SB1160-SIDE		SB1160-B		SB1159-SIDE		SB1159-B	
	Lab ID	480-67949-1		480-67949-2		480-67949-3		480-67949-4		480-67949-5	
	Sample Type	Aqueous		Wipe		Wipe		Wipe		Wipe	
	Sample Date	9/22/2014		9/22/2014		9/22/2014		9/22/2014		9/22/2014	
	Units	µg/L		µg/wipe		µg/wipe		µg/wipe		µg/wipe	
Aroclor-1248		160		(<1.0)	U	(<1.0)	U	(<1.0)	U	(<1.0)	U
Aroclor-1254		(<20)	U	0.40	J	0.42	J	(<1.0)	U	(<1.0)	U

NOTE:
EPA = U.S. Environmental Protection Agency
ID = Identification
µg/wipe = micrograms per wipe
µg/L = micrograms per liter = parts per billion (ppb)
J = Concentration is an estimated value.
U = Analyzed but not reported at a concentration above the reporting limit. Sample quantitation limits are shown as (<___).
Analytical results were reported by TestAmerica Laboratories, Inc.

Appendix A

Site Photos
Pre-IRM and Post-IRM

Appendix A – Site Photos

Example of site clearing north of South Creek.

Decontamination pad looking south.

Op-Tech chipping trees and brush north of Rattlesnake Creek.

Example of a cleared transect in southern 13-acre site.

Debris stockpile (i.e. drums, tires, concrete, metal) with construction fencing located south of South Creek.

NYLD conducting the EM survey between Middle Creek and Rattlesnake Creek.

Appendix A – Site Photos

Staged drums from Test Pit 06.

Staged drums from Test Pit 06.

Staged drums from Test Pit 08.

Staged drums from Test Pit 16.

Excavated drums staged on poly sheeting.

Excavated drums staged in lined roll-off container.

Appendix A – Site Photos

Drums staged in roll-off containers.

Drums staged in roll-off containers.

Appendix B

Daily Field Reports and Field Log Book

DAILY FIELD REPORT

Day: Monday Date: 23 September 2013

Temperature: (F) 59

Wind Direction: NW

Project Name: 5565 River Road

Weather: (am) Partly sunny, 45
(pm) Mostly sunny, 59

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0830 (am)

Location: Tonawanda, New York **Leave site:** 1700 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Onsite at 0830 to meet NYLD. Mark from NYLD onsite at 0915. EA and NYLD conducted initial health and safety briefing and conducted a site walk throughout the entire 24-acre portion of the site. During the site walk, signs of recent ATV activity were observed along the berm immediately south of Rattlesnake Creek. NYLD setup and calibrated EMP equipment to site specific conditions and tested the equipment over NYSDEC test pit H-17 with success. NYLD continued to conduct the EM survey in areas north of middle creek and north of Rattlesnake Creek. Magnetometer surveys will be completed in areas subsequent to the EM surveys.

EA marked out all surface soil sample locations in preparation for sample collection next week.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
None	None

DAILY FIELD REPORT **Day: Monday Date: 23 September 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson

NYLD personnel: Mark Manzari

NYLD equipment: GSSI Profiler Electromagnetic Profiler (EMP) - 400

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

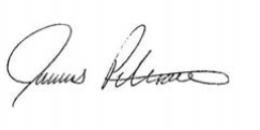
Signs of recent ATV activity were observed along the berm immediately south of Rattlesnake Creek.

ATTACHMENT(S) TO THIS REPORT:

Photolog and Site Map

SITE REPRESENTATIVE:

Name:



cc:

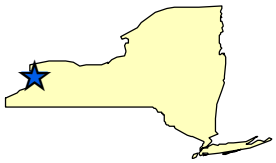
Daily Photolog

NYLDs handheld EMP unit.

Conducting the EM survey between middle creek and Rattlesnake Creek.

Recent ATV activity along the berm south of Rattlesnake Creek.

Recent ATV activity along the berm south of Rattlesnake Creek.



Legend

- 5565 River Road Site
- 5565 River Road Northern Portion (24 acres)
- 5565 River Road Southern Portion (13 acres)
- Open Surface Water Channel
- Surface Water Conduit/Culvert

Yards: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	JULY 2013	14907.21	GIS/PROJECTS/ FIGURE2.MXD

DAILY FIELD REPORT

Day: Tuesday Date: 24 September 2013

Temperature: (F) 65

Wind Direction: W

Project Name: 5565 River Road

Weather: (am) Clear, 43
(pm) Clear, 65

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0730 (am)

Location: Tonawanda, New York

Leave site: 1630 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (x)	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Onsite at 0730 to meet NYLD (Mark and Steve). NYLD continued to conduct the EM survey in areas between middle creek and Rattlesnake Creek. Marked locations of potential drum areas and/or large anomalies with stakes. Magnetometer was used to confirm locations of potential subsurface drum areas and large anomalies. Conducted GPR and locator surveys to mark out/confirm locations of utilities north of Rattlesnake Creek and along the sewer main and gas pipeline. Performed passive survey around the perimeter of the site to identify any unknown utilities (none were identified).

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
None	None

DAILY FIELD REPORT **Day: Tuesday Date: 24 September 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson

NYLD personnel: Mark and Steve

NYLD equipment: GSSI Profiler EMP – 400, Noggin Pro 500, RD 7000 Locator, Magnetometer

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

Photolog and Site Map

SITE REPRESENTATIVE:

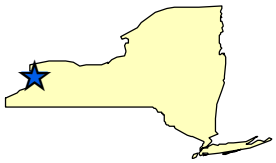
Name:

cc:

Daily Photolog

Conducting GPR survey over the Rattlesnake Creek conduit.

Green flagging delineating the Rattlesnake Creek conduit. Orange stake in the background is marking a potential subsurface drum location.



Legend

- 5565 River Road Site
- 5565 River Road Northern Portion (24 acres)
- 5565 River Road Southern Portion (13 acres)
- Open Surface Water Channel
- Surface Water Conduit/Culvert

Yards: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	JULY 2013	14907.21	GIS/PROJECTS/ FIGURE2.MXD

DAILY FIELD REPORT

Day: Wednesday Date: 25 September 2013

Temperature: (F) 70

Wind Direction: ESE

Project Name: 5565 River Road

Weather: (am) Clear, 44
(pm) Clear, 70

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0730 (am)

Location: Tonawanda, New York

Leave site: 1630 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (x)	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Onsite at 0730 to meet NYLD (Mark and Steve). NYLD completed EM survey between south creek and middle creek. Marked locations of potential drum areas and/or large anomalies with stakes. Conducted GPR and locator surveys to mark out/confirm locations of utilities south of Rattlesnake Creek. Surveyed site features including onsite utilities and potential subsurface drum areas across the site. Greg Sutton of NYSDEC onsite from 1100 to 1115 for progress update.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
None	None

DAILY FIELD REPORT **Day: Wednesday Date: 25 September 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson

NYLD personnel: Mark and Steve

NYLD equipment: GSSI Profiler EMP – 400, Noggin Pro 500, RD 7000 Locator, Magnetometer, RTK-GPS

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Greg Sutton of NYSDEC

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

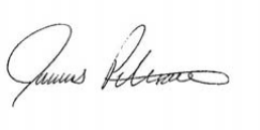
Greg Sutton of NYSDEC visited the site from 1100 to 1115 for a progress update.

ATTACHMENT(S) TO THIS REPORT:

Photolog and Site Map

SITE REPRESENTATIVE:

Name:



cc:

Daily Photolog

Conducting EM survey south of middle creek.

Surveying site features north of Rattlesnake Creek using RTK-GPS.

Conducting GPR survey over the south creek conduit.

DAILY FIELD REPORT

Day: Thursday Date: 26 September 2013

Temperature: (F) 70

Wind Direction: NE

Project Name: 5565 River Road

Weather: (am) Clear, 45
(pm) Clear, 70

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0730 (am)

Location: Tonawanda, New York

Leave site: 1600 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (x)	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Onsite at 0730 to meet NYLD (Mark and Steve). Confirmed all potential subsurface drum areas and large anomalies with GPR where possible. In all other areas a magnetometer was used to confirm the presence of anomalies. Used GPS to survey remaining site features and anomalies. Conducted EM survey over the south creek conduit.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
None	None

DAILY FIELD REPORT **Day: Thursday Date: 26 September 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Bob Casey

NYLD personnel: Mark and Steve

NYLD equipment: GSSI Profiler EMP – 400, Noggin Pro 500, RD 7000 Locator, Magnetometer, RTK-GPS

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

Photolog and Site Map

SITE REPRESENTATIVE:

Name:

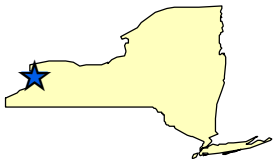
cc:

Daily Photolog

Conducting EM survey over the south creek conduit.

Using GPR to confirm presence of potential subsurface drums.

Confirmed location marked for potential test pitting.



Legend

- 5565 River Road Site
- 5565 River Road Northern Portion (24 acres)
- 5565 River Road Southern Portion (13 acres)
- Open Surface Water Channel
- Surface Water Conduit/Culvert

Yards: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	JULY 2013	14907.21	GIS/PROJECTS/ FIGURE2.MXD

DAILY FIELD REPORT

Day: Thursday Date: 24 October 2013

Temperature: (F) 46

Wind Direction: W

Project Name: 5565 River Road

Weather: (am) Clear, 33
(pm) Partly cloudy, 46

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0715 (am)

Location: Tonawanda, New York **Leave site:** 1700 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

EA (Jim, Rob, Hilary, and Bob) onsite to meet SJB (Randy) to begin test pitting. SJB onsite at 0730 and excavator onsite at 0915. Test pitting began at geophysical area of concern (AOC)-01 and test pits at all four anomalies were completed. Test pits at two anomalies associated with AOC-02 were also completed.

Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pits subsequent to sample collection. Drum contents were collected into disposable bowls, composited, and sampled using a disposable scoop. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. If possible, drum contents were drained into steel overpacks and sealed. Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day. Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
TP-01-AOC01	VOCs, SVOCs, PCBs, Metals, Mercury, and TCLP
TP-04-AOC01	VOCs, SVOCs, PCBs, Metals, and Mercury
TP-06-AOC02-A (Duplicate-01)	VOCs, SVOCs, PCBs, Metals, and Mercury
TP-06-AOC02-B	VOCs, SVOCs, PCBs, Metals, Mercury, and petroleum fingerprinting (8015)
TP-06-AOC02-C (MS/MSD)	VOCs, SVOCs, PCBs, Metals, and Mercury
TP-06-AOC02-D	VOCs, SVOCs, PCBs, Metals, Mercury, and petroleum fingerprinting (8015)

DAILY FIELD REPORT **Day: Thursday Date: 24 October 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson, Rob Peterson, Hilary Williams, Bob Casey

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

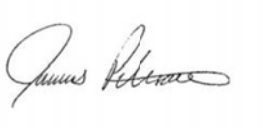
None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

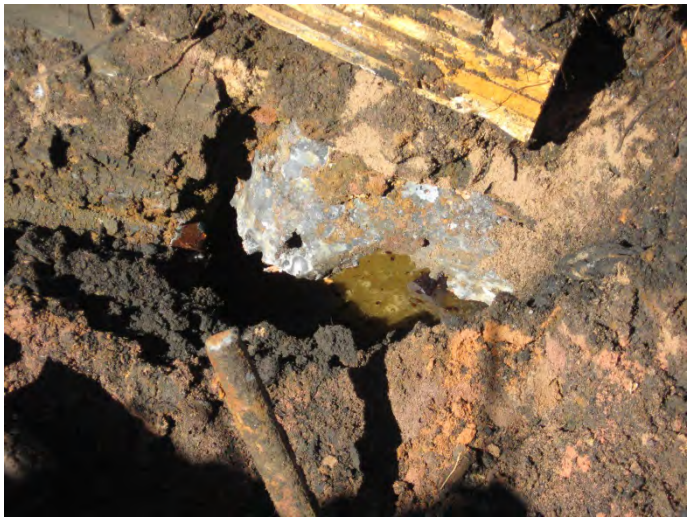
Name:



cc:

PHOTOLOG

Mobilizing excavator to the site.



Exposed drum and contents at TP-04.

Recovered drum at TP-06.

Stockpiling drums at TP-06.

Draining drum contents into overpack at TP-06.

DAILY FIELD REPORT

Day: Friday Date: 25 October 2013

Temperature: (F) 47

Wind Direction: W

Project Name: 5565 River Road

Weather: (am) Partly cloudy, 36
(pm) Partly sunny, 47

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0715 (am)

Location: Tonawanda, New York **Leave site:** 1600 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

EA (Jim, Rob, and Hilary) onsite to meet SJB (Randy) to continue test pitting. Test pitting began at TP-07 within AOC-02. Several drums were encountered trending toward TP-06. Test pitting was stopped at TP-07 until Glenn May of NYSDEC could be consulted. Completed test pit at TP-08 and the returned to TP-07 to remove the remaining drums after discussion with NYSDEC. Completed test pits at the two anomalies associated with AOC-03 and at former NYSDEC test pits B-19, D-18, and H-17 to recover known subsurface drums.

Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pits subsequent to sample collection. Drum contents were collected into disposable bowls, composited, and sampled using a disposable scoop. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. If possible, drum contents were drained into steel overpacks and sealed. Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day. Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
TP-08-AOC02	VOCs, SVOCs, PCBs, Metals, and Mercury

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson, Rob Peterson, Hilary Williams

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May and Greg Sutton (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name:

cc:

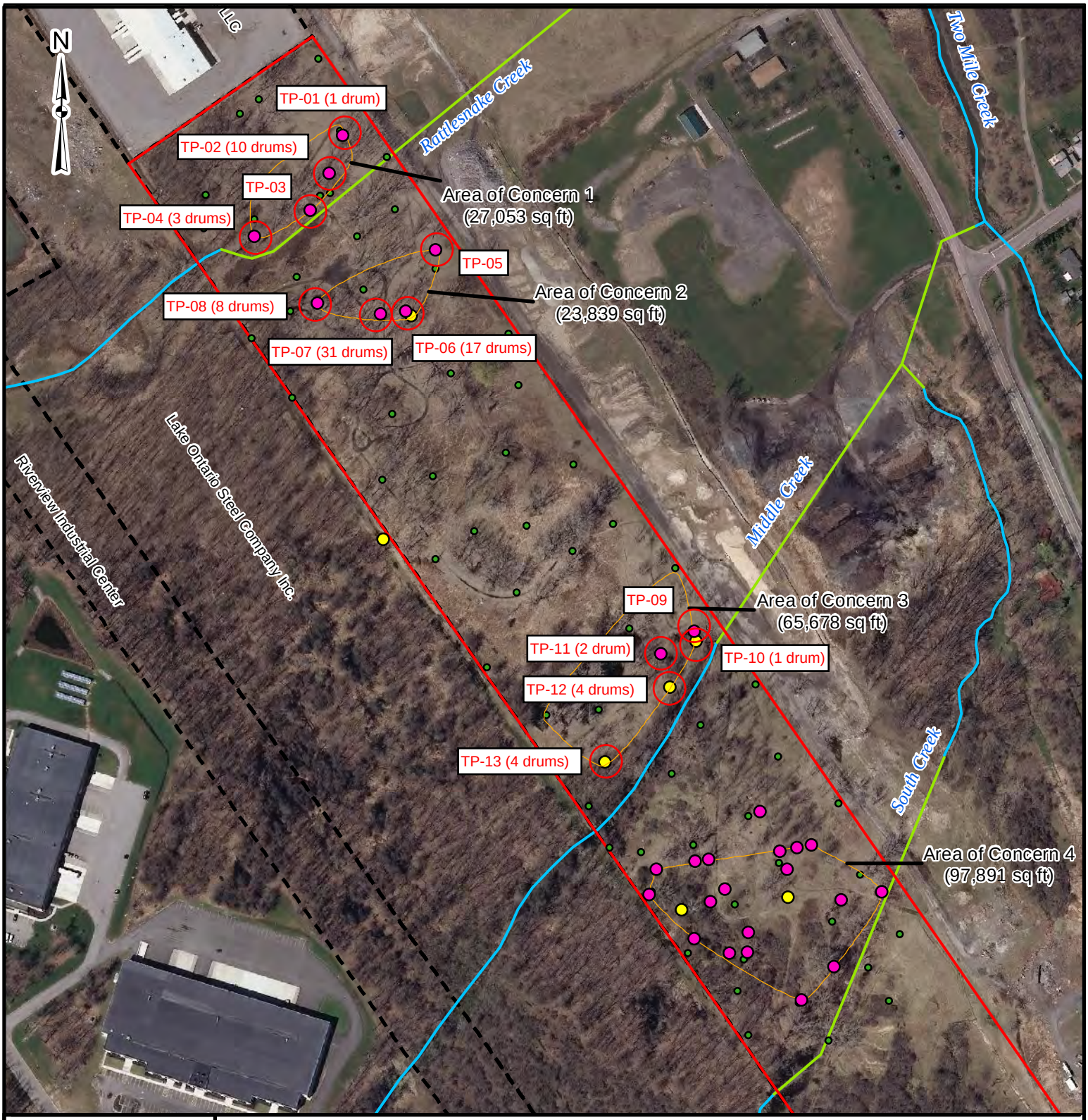
PHOTOLOG

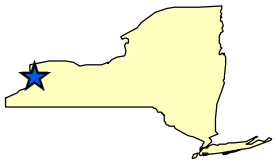
Placing drum into overpack at TP-07.

Drum contents at TP-07.

Drum contents sampled at TP-08.

Large piece of slag recovered from TP-09.





Legend

- 5565 River Road Site
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Area of Concern
- Drum Encountered (NYSDEC)
- No Drums Present (NYSDEC)

Feet: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE X
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	OCTOBER 2013	14907.21	GIS/PROJECTS/ FIGUREX.MXD

DAILY FIELD REPORT

Day: Monday Date: 28 October 2013

Temperature: (F) 47

Wind Direction: N

Project Name: 5565 River Road

Weather: (am) Partly cloudy, 43
(pm) Partly cloudy, 47

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0730 (am)

Location: Tonawanda, New York **Leave site:** 1600 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Test pitting was conducted at all anomalies within AOC-04. Test pits with no subsurface drums were backfilled and marked out with survey stakes. Test pits with subsurface drums were left opened and covered with orange construction fencing. A total of 59 subsurface drums were observed within the test pits that were left open for the night. Drums within open test pits will be removed on Tuesday.

Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day. Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Rob Peterson

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May and Greg Sutton (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

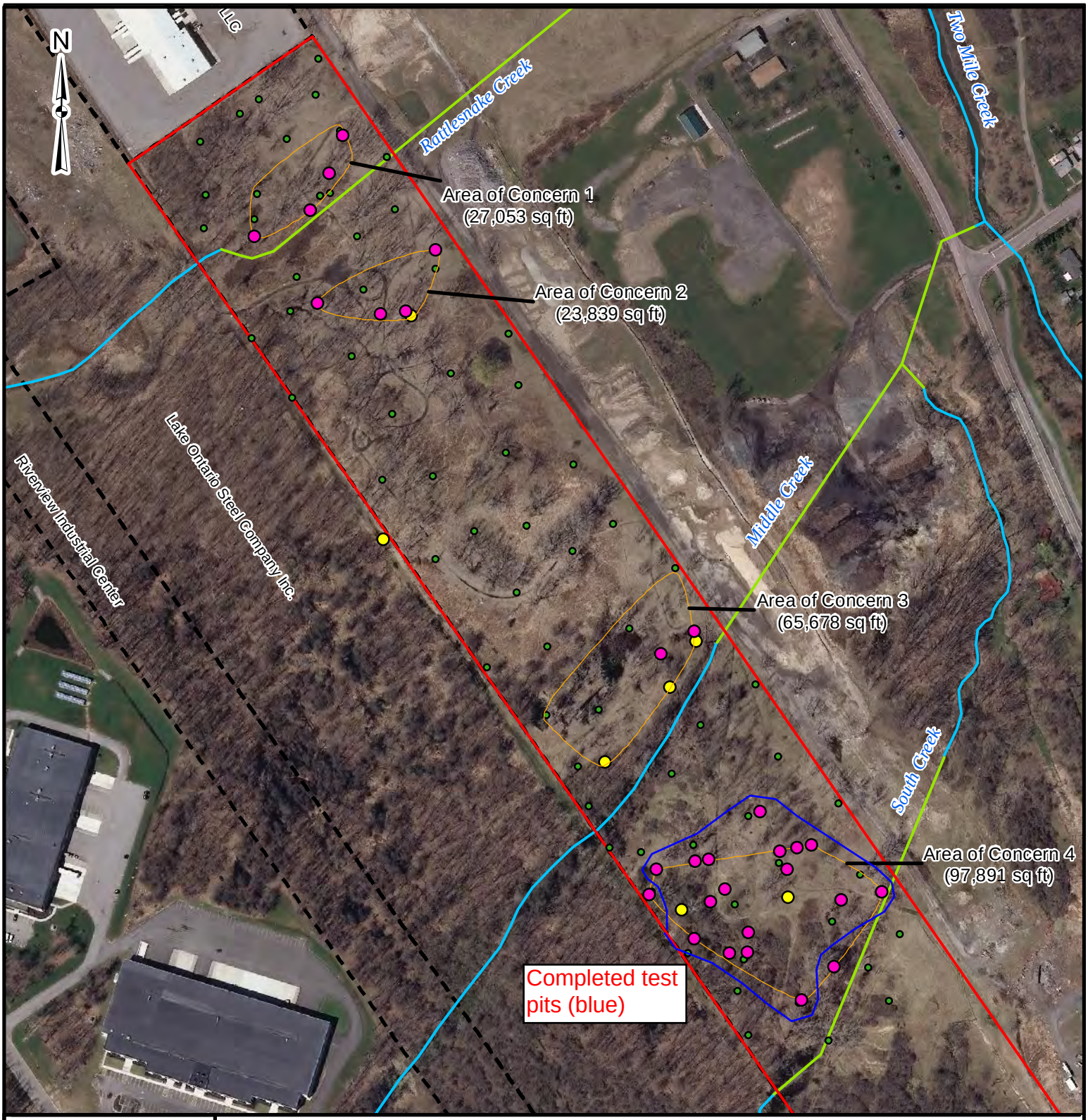
Name:

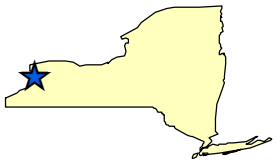
cc:

PHOTOLOG

Beginning test pit in AOC-04.

Test pit left open for drum removal on Tuesday.





Legend

- 5565 River Road Site
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Area of Concern
- Drum Encountered (NYSDEC)
- No Drums Present (NYSDEC)

Feet: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE X
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	OCTOBER 2013	14907.21	GIS/PROJECTS/ FIGUREX.MXD

DAILY FIELD REPORT

Day: Tuesday Date: 29 October 2013

Temperature: (F) 48

Wind Direction: E

Project Name: 5565 River Road

Weather: (am) Clear, 25
(pm) Clear, 48

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0730 (am)

Location: Tonawanda, New York

Leave site: 1630 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

All subsurface drums were removed from test pits as indicated on the site map. Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pits subsequent to sample collection. Drum samples were collected into disposable bowls, composited, and sampled using a disposable scoop. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. If possible, drum contents were drained into steel overpacks and sealed. All drums and soil that was staged on plastic was also covered with plastic sheeting. Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day. Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit. A total of 104 subsurface drums were removed from test pits within AOC-04 and staged on plastic.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
TP-16-AOC04	VOCs, SVOCs, PCBs, Metals, and Mercury
TP-18-AOC04	VOCs, SVOCs, PCBs, Metals, and Mercury
TP-21-AOC04	VOCs, SVOCs, PCBs, Metals, Mercury, and petroleum fingerprint

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Rob Peterson

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name:

cc:

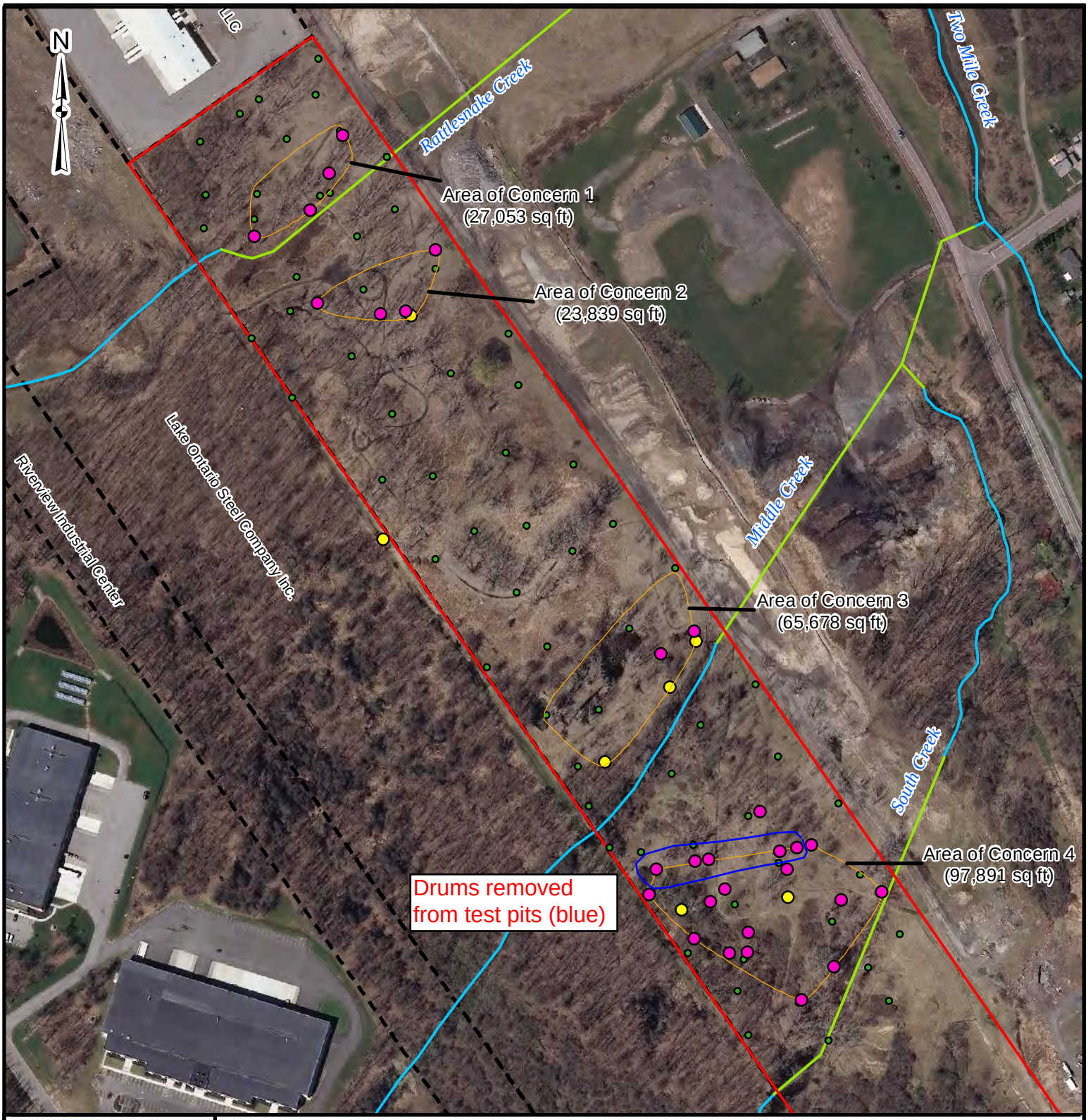
PHOTOLOG

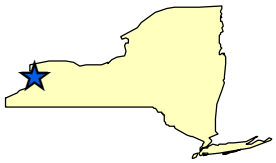
Removing a drum at TP-16.

Drum removed from TP-16 with TRI-ETHYL written on the side.

Drum removed from TP-20 with Superior Solvent written on the side.

Emptying drum contents into an overpack at TP-21.





Legend

- 5565 River Road Site
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Area of Concern
- Drum Encountered (NYSDEC)
- No Drums Present (NYSDEC)

Feet
0 250 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE X
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	OCTOBER 2013	14907.21	GIS/PROJECTS/ FIGUREX.MXD

DAILY FIELD REPORT

Day: Wednesday Date: 30 October 2013

Temperature: (F) 57

Wind Direction: SE

Project Name: 5565 River Road

Weather: (am) Partly cloudy, 38
(pm) Mostly cloudy, 57

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0715 (am)

Location: Tonawanda, New York **Leave site:** 1630 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Continued to remove subsurface drums from test pits within AOC-04. A total of 31 drums were removed from AOC-04 today and subsurface drums still need to be removed from an additional four areas. Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pits subsequent to sample collection. Drum samples were collected into disposable bowls, composited, and sampled using a disposable scoop. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. If possible, drum contents were drained into steel overpacks and sealed. All drums and soil that was staged on plastic was also covered with plastic sheeting. Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day.

A total of 11 exploratory test pits were completed along the southern transects. Material consisted of top soil and native clay; no fill material was encountered.

Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit. As of today a total of 135 subsurface drums were removed from test pits within AOC-04.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
TP-21-AOC04-B	VOCs, SVOCs, PCBs, Metals, and Mercury

DAILY FIELD REPORT **Day: Wednesday Date: 30 October 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Rob Peterson

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May (NYSDEC).
2. Jim Hayward (EA)
3. Joe VonUderitz (EA)

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name:

cc:

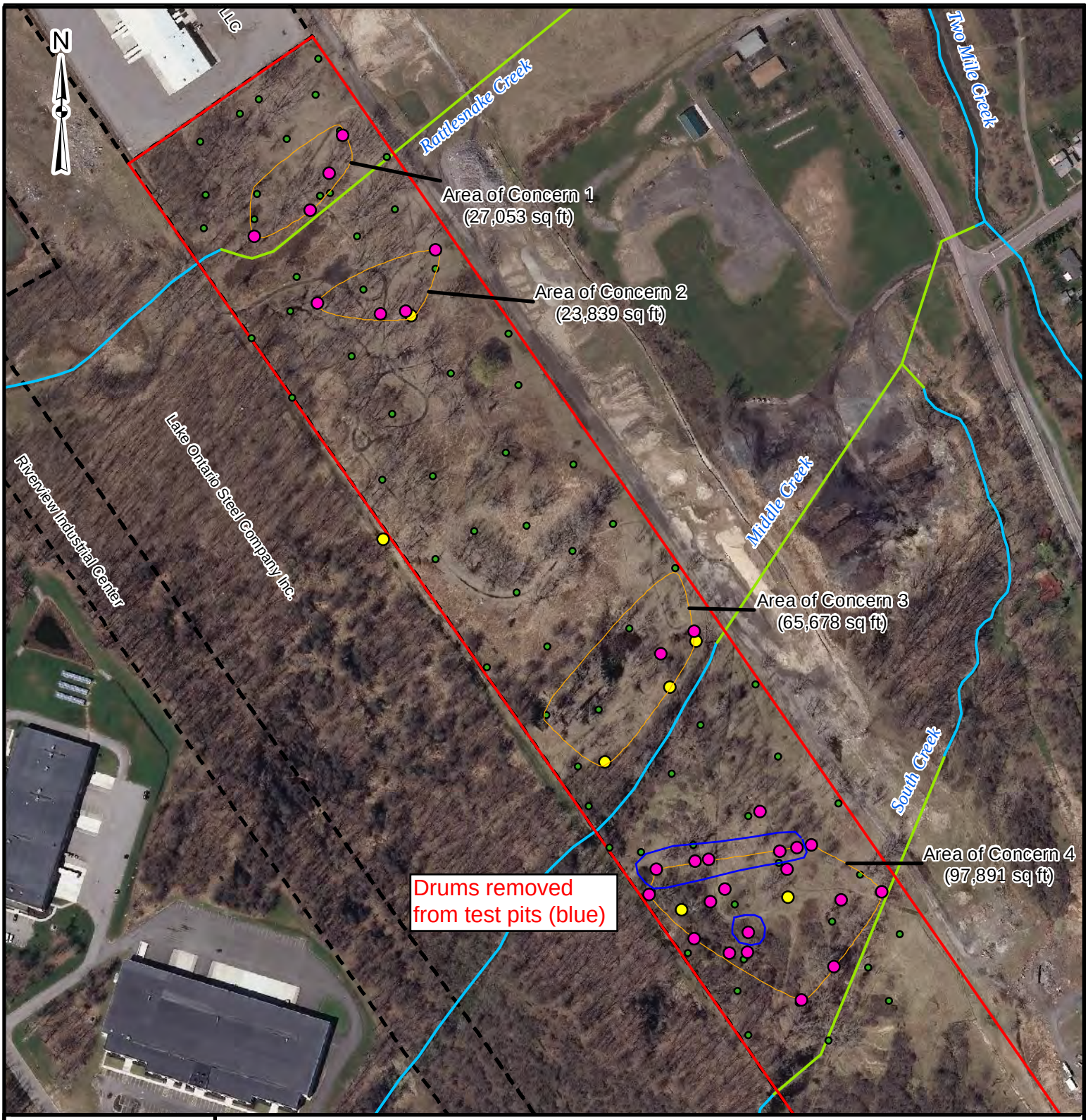
PHOTOLOG

Drum removed from TP-21 with Chlorothene NU written on the side.

Collecting drum sample prior to overpacking.

Drum removed from TP-25 with red engine enamel written on the side.

Example of material encountered in test pits completed along southern transects.



Legend

- 5565 River Road Site
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Area of Concern
- Drum Encountered (NYSDEC)
- No Drums Present (NYSDEC)

Feet: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE X
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	OCTOBER 2013	14907.21	GIS/PROJECTS/ FIGUREX.MXD

DAILY FIELD REPORT

Day: Thursday Date: 31 October 2013

Temperature: (F) 69

Wind Direction: SSW

Project Name: 5565 River Road

Weather: (am) Heavy rain, 40
(pm) Light rain, 69

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0715 (am)

Location: Tonawanda, New York

Leave site: 1630 (am)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes (x) No ( )
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Continued to remove subsurface drums from test pits within AOC-04. A total of 106 drums were removed from AOC-04 today and subsurface drums still need to be removed from one additional area. Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pits subsequent to sample collection. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. If possible, drum contents were drained into steel overpacks and sealed. All drums and soil that was staged on plastic was also covered with plastic sheeting. Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day. Drum samples collected throughout the week were packed on ice and shipped to HamptonClarke-Veritech via Fed Ex overnight.

Two test pits were completed along the gravel access road to the east of the site to confirm extent of fill material.

Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit.

SJB had ten 55-gallon drums delivered to the site at 1000. The drums were staged on the north side of the PODS.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Rob Peterson

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name:

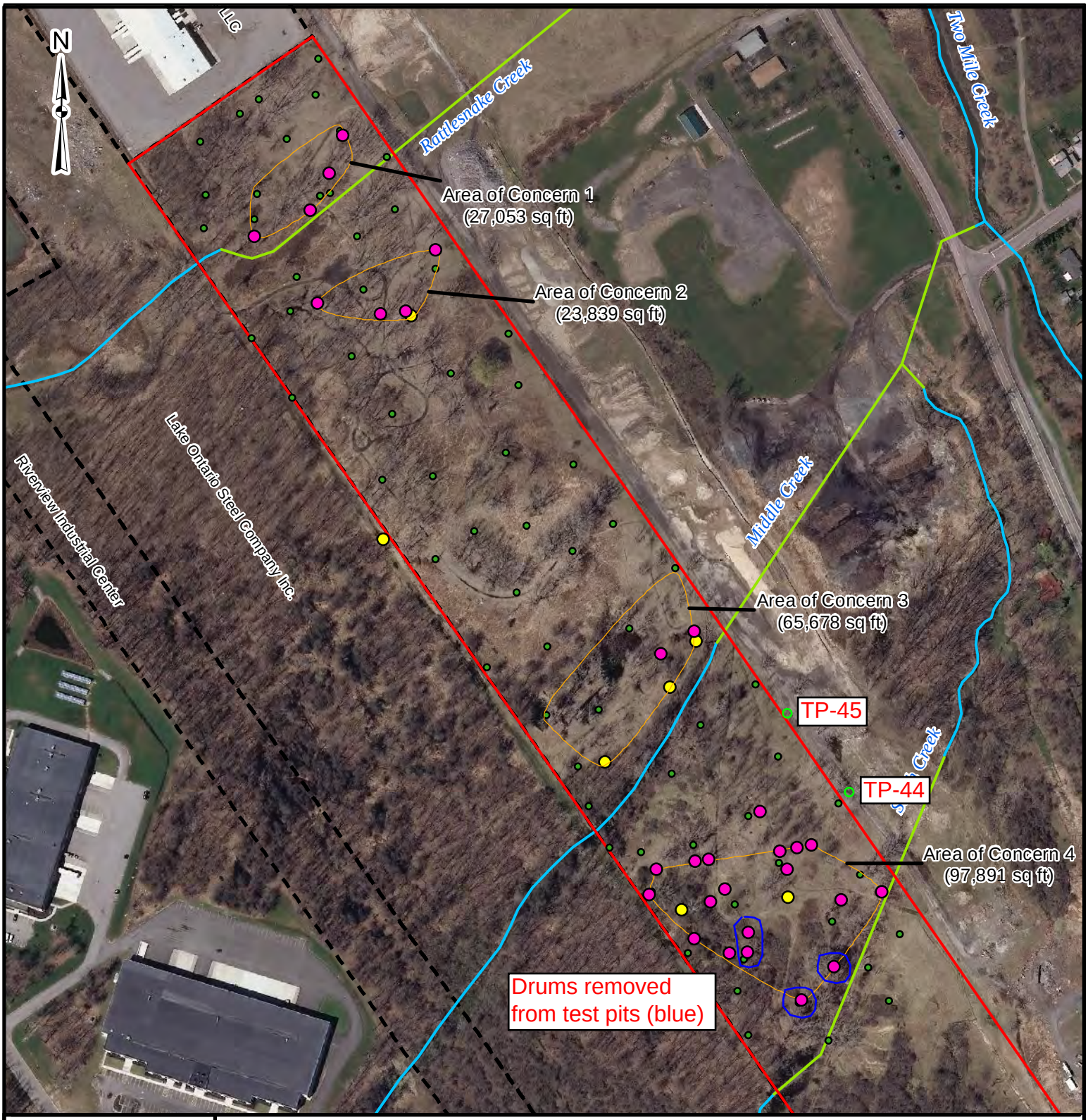
cc:

PHOTOLOG

Drums being recovered from TP-25.

Pulling and staging drums from TP-25.

Recovered drum with “Refining” written on the side.



Legend

- 5565 River Road Site
- Open Surface Water Channel
- Surface Water Conduit/Culvert
- Potential Subsurface Drum
- Area of Concern
- Drum Encountered (NYSDEC)
- No Drums Present (NYSDEC)

Feet: 0 — 250 — 500

5565 RIVER ROAD SITE (Site No. 915239)
TONAWANDA, NEW YORK

FIGURE X
GEOPHYSICAL SURVEY RESULTS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
RC	JCP	JCP	RC	AS SHOWN	OCTOBER 2013	14907.21	GIS/PROJECTS/ FIGUREX.MXD

DAILY FIELD REPORT

Day: Friday Date: 01 November 2013

Temperature: (F) 59

Wind Direction: W

Project Name: 5565 River Road

Weather: (am) Light rain, 56
(pm) Partly sunny, 59

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0715 (am)

Location: Tonawanda, New York

Leave site: 1515 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Finished removing subsurface drums from test pits within AOC-04. A total of 24 drums were removed from AOC-04 today at Bank-02 location. Subsurface and partially buried drums were staged on plastic sheeting adjacent to test pit. Any drum contents that spilled into the test pits were mixed with soil and placed on plastic sheeting. All drums and soil that was staged on plastic was also covered with plastic sheeting.

Thirteen fill estimate test pits were completed (TP-46 through TP-58). Composite samples were collected from the fill material for SVOC, PCB, TAL Metals, and Mercury. VOC samples were collected if elevated PID readings were observed.

Continuous air monitoring using a PID and multi-gas meter was conducted throughout the day.

Each completed test pit was backfilled, marked with stakes, and logged with a GPS unit.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:
915239-TP-46	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-47	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-48	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-49	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-51	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-52	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-56	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470
915239-TP-57	SVOC 8270C, PCB 8082, TAL Metals + Hg 6010B/7470

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson and Rob Peterson

EA equipment: PID, multi-gas meter, GPS

SJB personnel: Randy

SJB equipment: Excavator

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

1. Glenn May (NYSDEC).

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name: Robert Peterson

cc:

PHOTOLOG

View of fill estimate test pit.

View of fill estimate test pit. Note reddish brown native clay.

DAILY FIELD REPORT

Day: Monday Date: 25 November 2013

Temperature: (F) 33

Wind Direction: SW

Project Name: 5565 River Road

Weather: (am) Cloudy, light snow, 25
(pm) Partly sunny, 33

NYSDEC Site # 915239

Contract # D007624-21

Arrive at site: 0730 (am)

Location: Tonawanda, New York

Leave site: 1630 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Op-Tech onsite at 0830 (loader onsite at 0900) to begin to crush and load drums into roll off that was delivered to the site last week. Two additional roll offs were delivered to the site by Buffalo Fuel Corp. at 0930. A second liner (6 mil poly) was placed into each roll off before drums were loaded.

All roll offs were filled with drums from AOC04 (~88 drums/roll off). Drums with residual liquid contents were drained to surface soil and scraped into a roll off. Two additional roll offs are expected tomorrow.

SAMPLING (Soil/Water/Air)

Sample ID:	Description:

DAILY FIELD REPORT **Day: Monday Date: 25 November 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson

EA equipment: None

Op-Tech personnel: Deke, Steve, Mike

Op-Tech equipment: Clamshell loader

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

Photolog

SITE REPRESENTATIVE:

Name:

cc:

PHOTOLOG

Crushing drums prior to loading into roll offs in AOC04.

Hand loading crushed drums into the clamshell loader.

Crushed drums placed into roll off east of AOC04.

DAILY FIELD REPORT **Day: Tuesday Date: 26 November 2013**

Temperature: (F) 36

Wind Direction: SW

Project Name: 5565 River Road

Weather: (am) Light snow, 25
(pm) Snow, 36

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0700 (am)

Location: Tonawanda, New York **Leave site:** 1330 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes ( )	n/a (x)	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

Op-Tech onsite at 0800 to continue crushing and loading drums into roll offs. Two additional roll offs were delivered to the site by E-Tank, Ltd. at 0800. A second liner (6 mil poly) was placed into each new roll off before drums were loaded. Remaining drums from AOC04 and drums from AOC01, 02, and 03 were placed into roll offs. All roll offs were covered and secured before Op-Tech left the site at 1200. Final drum count is as follows:
AOC01: 13 drums
AOC02: 56 drums
AOC03: 11 drums
AOC04: 268 drums

EA gauged all onsite and offsite monitoring wells:

Well ID	Depth to water (ft btoc)	Total Depth (ft btoc)
RIC-MW-1	9.32	22.13
RIC-MW-4	4.78	21.77
RIC-MW-5	5.44	32.65
RIC-MW-6	6.77	32.98
RIC-MW-7	6.42	32.54
RIC-MW-8	22.89	32.55
RIC-MW-9	3.94	22.32
5565-MW-01	8.69	13.53
5565-MW-02	5.66	11.52
5565-MW-03	4.35	22.50
5565-MW-04	4.37	16.45
5565-MW-05	6.27	15.92
5565-MW-06	7.81	17.87
5565-MW-07	7.93	24.93

SAMPLING (Soil/Water/Air)

Sample ID: **Description:**

DAILY FIELD REPORT **Day: Tuesday Date: 26 November 2013**

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: James Peterson

EA equipment: None

Op-Tech personnel: Deke, Eric, Mike

Op-Tech equipment: Clamshell loader

(*Indicates active equipment)

Other Subcontractors: None

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

Photolog

SITE REPRESENTATIVE:

Name:

cc:

PHOTOLOG

Transporting drums to roll offs east of AOC04.

Loading drums into roll off east of AOC02.

DAILY FIELD REPORT

Day: Tuesday Date: 16 September 2014

Temperature: (F) 55

Wind Direction: ESE

Project Name: 5565 River Road

Weather: (am) Overcast, 55
(pm) Overcast, 60

NYSDEC Site # 915239

Contract # D007624-21 **Arrive at site:** 0800 (am)

Location: Tonawanda, New York **Leave site:** 1300 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes ( ) No (x)

DESCRIPTION OF DAILY WORK PERFORMED:

EA mobilized to the River Road Site to oversee the transfer of drum waste to Clean Harbors roll-offs for disposal and the surveying of sample locations by PDG. PDG arrived to begin surveying at 0900. Clean Harbors arrived with the first roll-off and the excavator arrived at 0940. Clean Harbors began emptying the first old roll-offs at 0950. Clean Harbors began emptying the second old roll-off at 1150. EA noticed some water accumulation at the bottom of one of the roll-offs at 1155.

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Charles Yarrington

Clean Harbors personnel: Brian Duncan, Michael Coburn, Josh Pfeifer

Clean Harbors equipment: 2 pickup trucks and 1 excavator

PDG personnel: Kevin Ryder

(*Indicates active equipment)

Other Subcontractors:

VISITORS TO SITE:
None

PROJECT SCHEDULE ISSUES:

None

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:
None

COMMENTS:

None

DAILY FIELD REPORT **Day: Tuesday Date: 16 September 2014**

ATTACHMENT(S) TO THIS REPORT:

None

SITE REPRESENTATIVE:

Name:

cc:

Weather: Partly sunny, 45, wind NW
Forcast: Partly sunny, 59, wind NW

9/23/13

EA (JCP) onsite @ 0830
NYLD (Mark) onsite @ 0915

- Conducted H&S briefing and completed site walk over northern 24-acre site.
- Observed recent ATV activity along berm immediately south of the Rattlesnake Creek conduit
- All onsite streams are flowing after weekend precipitation

NYLD began to setup and calibrate geophysical equipment to onsite conditions. Located anomalies @ H-17 and continued to survey (EM) between middle creek & Rattlesnake Creek (Several underground anomalies present)

EA marked out all surface soil sampling locations w/ pin flags.

EM
→ unit model: GSSI Profiler EMP-400
Electromagnetic Profiler

9/23/13

NYLD began to run EM north of Rattlesnake Creek. Had to re-cal. due to difference in subsurface morphology.

Offsite @ 1700

9/24/13

EA onsite @ 0730
NYLD onsite @ 0800 (Mark & Steve)

Weather: Clear, 43, calm
Forcast: Clear, 65, light breeze w

NYLD continued to conduct EM survey between middle creek and Rattlesnake Creek. Marked locations of ~~drums~~ probable drum areas and/or large anomalies w/ stakes.

Conducted ~~magnetometer~~ GPR surveys north of Rattlesnake Creek to map ~~any~~ all utilities and other anomalies. Used RD 7000 locator for utilities in that portion of the site and for sewer main & gas line. Used Noggin Pro 500 for GPR surveys

- RD 7000 was also used to conduct passive survey around perimeter of site to confirm locations of known utilities & identify unknowns (none identified)

9/24/13

Magnetometer was used to confirm locations of larger (potential drum areas) ~~between~~ identified by EM survey between middle creek & Rattlesnake Creek.

Offsite @ 1630

9/25/13

EA onsite @ 0730
NYLD (Mark + Steve) onsite @0800

Weather: ~~11 PM~~ Clear, 44, ESE
Forecast: Clear, 70, Calm

NYLD began to conduct EM survey between south creek & middle creek.

Began to survey in site features including utilities and potential subsurface drum areas (Leica GNSS GS12 - RTK GPS)
- Connects to satellites as a normal GPS & also links real-time to the NYS server for real-time differential correction (automatically connects to the closest NYSDOT base station)
- Horizontal accuracy down to the hundredth of a foot. Vertical accuracy down to a tenth of a foot.

9/25/13

Greg Sutton (NYSDEC) onsite from 1100 - 1115 for progress report. Said Glenn May would be out late this week or early next.

NYLD conducted GPR & locator survey to map out location of south creek conduit as it flows off-site.

Offsite @ 1630

20

9/26/13

EA onsite @ 0730
NYLD onsite @ 0800 (Mark & Steve)

Weather: Clear, 45, w NE
Forcast: Clear, 70, w NE

NYLD began to confirm all potential subsurface drum areas and large anomalies w/ GPR where possible. Conducted EM survey over the south creek conduit.

→ Confirms presence of anomaly & approximate area.
In areas not practical to use GPR, magnetometer was used to confirm presence of anomalies

Surveyed remaining site features & anomalies.

USED GPS TO LOCATE PROMINENT POINTS AND AREAS OF INTEREST.

9/26/13

- Continued magnetometer review of points of interest over entire site.

Offsite @ 1600

10/18/13

EA onsite @ 0730

Weather: Partly cloudy, 42
Forcast: Partly sunny, 61, wind W

Completed well development at MW-01. Locks were placed on all monitoring wells
Frank from OP-Tech onsite @ 0900 to deliver 5 over packs. Secured in PODS for weekend.

10/24/13

- EA (JC / HW / RP) onsite @ 0715 to load up test pit supplies. Bob Casey onsite @ 0745

Weather: Clear, 33
forcast: Partly cloudy, 46

SJB (Randy) onsite @ 0730 to meet excavator.
- Excavator delivered to site @ 0915.

TP-01-AOC01 @ 0930
- Black liquid @ 12' and sampled. Test pit complete 1015 & backfilled

TP-01-AOC01 @ 1010 (TCLP)

TP-02-AOC01 @ 1030
- Began by removing semi-buried drums from bank
- Test pit complete @ 1055 water @ 12'. Backfilled
- No drums encountered

10/24/13

Removed drums from bank south of TP-03-AOC01 & staged on plastic.

TP-03-AOC01 started @ 1125 and backfilled @ 1150
- No drums encountered

TP-04-AOC01 started @ 1245
- Drum sample collected @ 1305 (TP-04-AOC01) - clear liquid slight odor
- Backfilled @ 1320
- 3 drums encountered

TP-05-AOC02 started @ 1335
- Backfilled @ 1340
- No drums

TP-06-AOC02 started @ 1347
Drums samples: TP-06-AOC02-A @1400 → Duplicate-01 (TP-Duplicate-01)
TP-06-AOC02-B @1535
TP-06-AOC02-C @1425 → MS/MSD
TP-06-AOC02-D @1540

EPA 8015 GCFID in addition to other analyses

10/24/13

TP-06-AOC2-A - Black putty like sludge
TP-06-AOC2-B - Black oil
TP-06-AOC2-C - Black putty like sludge
TP-06-AOC2-D - Black oil

- 17 drums pulled from test pit & staged on plastic as well as impacted soil.

TP-06-AOC02 complete @ 1600

10/25/13

EA and SJB onsite @ 0715

Weather: Partly cloudy, 36, wind W
Forcast: Partly sunny, 47, wind W

Begin testpitting @ TP-07-AOC2 at 0739

HH HH HH HH II

- One drum @ 2' w/ black oil
- One @ 2' w/ solid & wet putty (black) - staged on plastic
- One @ 2' w/ solid black putty
  → placed into overpack
- one @ 3' w/ solid black putty

All drums trending southeast towards TP-06. Stopped test pitting & logged area as a drum area. Confirmed that no additional drums were trending north.

Backfilled TP-07 @ 0905
- No samples collected.

10/25/13

Began TP-08-AOC02 at 0910 by excavating into bank. Recovered 8 empty drums + staged on plastic. Other material consisted of miscellaneous garbage and fly ash.
- Built bank back up @ 0938
- Began test pitting TP-08-AOC02 at 0940.

→ Gray/black solid observed in one drum. Shiny/glittering surface.
- TP-08-AOC02 @ 0950
- Native @ 6'

Returned to TP-07-AOC02 to remove remaining drums @ 1023

HH III
- one w/ black oil @ 3' staged on plastic
- Backfilled @ 1100

10/25/13

- Exploratory test pit @ a pin flag complete @ 1105. No findings - large slag.

Begin test pit TP-09-AOC03 at 1118.
- Encountered 5 x 3' slag (probable geophysical anomaly)
- Native @ 12'
- No drums, no sample collected
- Backfill test pit @ 1140

Begin test pit TP-10-AOC03 at 1154 (Original B-19 location).
- Removed drum from NYSDEC investigation
- Backfilled @ 1200
- No sample collected

10/25/13

Begin test pit TP-11-AOC03 at 1253.
- Small drum encountered @ 1.5' (empty)
- Native at 10', water @ 9'
- No sample collected
- Backfilled at 1306

Begin test pit TP-12-AOC03 at 1320 (Original D-18 location)
- ~~One~~ Two drums recovered, empty 4'
- One " " @ 4' empty
- One " " @ 5' w/ black oil substance
- Backfilled at 1355

Begin test pit TP-13-AOC03 at 1415 (Original H-17 location).
- ~~3~~ drums at 5', empty
- 1 " ", black sludge
- Backfilled @ 1530

10/28/13

See test pit logs & DFR.

10/29/13

EA onsite ~~at~~ 0715 to meet SJB.

Weather: Clear, 25, light wind
Forecast: Clear, 48, Wind E

Begin pulling and staging drums at TP-16-AOC04 ~~at~~ 0800

Drum sample TP-16-AOC04 @ 0815
- Black oily sludge
- Some contents leaking ~~to soil~~

IIII IIII IIII I (16 total)

Backfilled @ 0900

10/29/13

Begin pulling drums From TP-18-AOC04 at 0910

IIII IIII IIII II (17 total)

Drum sample TP-18-AOC04 @ 0935
- Black liquid sludge w/ sweet solvent odor.

Drums also contain black oily sludge
Backfilled at 1008
-Soil impacted w/ drum contents staged onplastic

Begin pulling drums and staging on plastic at TP-19-AOC04 at 1030

IIII IIII IIII I (16 total)

- Moved to between TP-19 & TP-20 to connect the two (continuous subsurface drums) test pits, at 1130.
- Extension will be included as TP-20

34 total

IIII IIII IIII IIII IIII IIII IIII

10/29/13

- Drums contain black oily sludge and black liquid sludge w/ solvent smell (all similar to previous test pits
- Several drums ruptured upon removal, obvious impacted soil removed & staged on plastic
- Similar contents as previous drums, no sample collected

TP-31-AOC04 at 1400 (exploratory test pit south of TP-21) - to confirm extent of drums @ TP-21

(one total)

1

- Gray/Black oily sludge material similar to previous drums
- Native 9'

Backfilled at 1408

10/29/13

TP-32-AOC04 at 1415 (exploratory test pit to confirm extent of drums between TP-31 and the western bank of site w/ visible drums)

- No drums encountered
- Native @ 8'

Backfilled at 1425

Begin to remove drums & stage on plastic at TP-21-AOC04 at 1440.

~~HH HH HH HH~~ 20 total

- Black oily sludge ~~encountered~~
- White liquid " "
  - After discussion w/ NYSDEC decided not to collect sample to prevent drum from leaking further.
- Thick oil w/ bluish tint
  - Drum sample TP-21-AOC04 @ 1540 - submitted for 8015
  - Drum & contents placed into overpack

10/29/13

- Backfilled western portion of TP-21 & will cont. w/ eastern portion tomorrow AM.

Complete @ 1615

10/30/13

EA onsite @ 0715 to meet SJB.

Weather: Partly cloudy, 38, W SSE
Forcast: Mostly cloudy, 57, W SE

- Continue excavation at TP-21. Excavation extended to the east. at 0800

||| |||| || (12 total)
32 drums from TP-21

- Drums just above native in extremely compacted Fly ash & slag (like cement).
- Several ruptured upon removal from subsurface material. Similar contents as yesterday. Bottom halves of drums are in groundwater & extremely corroded.
  - → Black ~~mat~~ liquid material w/ solvent odor.
- One drum brought to surface ~~&~~ relatively intact w/ black solvent material. Placed into overpack.

Drum Sample TP-21-AOC04-B @ 0930

10/30/13

Backfilled TP-21 at 1040

Began test pits along southern transects due to weather forecast for tonight & tomorrow (heavy rain)

TP-33 from 1125 - 1130 pic
- No fill encountered
- Top soil over native clay

TP-34 from 1138 - 1142
- No fill encountered
- Top soil over native clay

TP-35 from 1250 - 1257 pic
- No fill encountered
- Top soil over native clay

TP-36 from 1301 - 1305
- No fill encountered
- Top soil over native clay

TP-37 from 1310 - 1322
- Same as above.
- Some reworked clay above native.

10/30/13

TP-38 from 1330 - 1335
- Same as above.

TP-39 from 1445 to 1350
- Same as above

TP-40 from 1358 to 1402
- Same as above
- pic taken

TP-41 from 1407 to 1412
- Same as above.

TP-42 from 1415 to 1421
- Same as above

TP-43 from 1426 to 1430
- Same as above.

10/30/13

Moved to TP-25-AOC04 at 1445 to continue to remove drums.

|||| |||| |||| |||| (19 total)

- Drum contents similar to previous. Black oily sludge
- Removed wooden crucible? stoped object.

Stopped test pitting & will return tomorrow to complete TP-25

10/31/13

EA and SJB onsite 0715

Weather: ~~Light~~ Heavy rain, 40, W SSW
Forecast: Rain, 69, W SSW

Continued test pit at TP-25 at 0800.

(48 total)
|||| |||| |||| |||| |||| |||| ||||
|||| |||| |||

- Removed clay over fill material and drums
- Dug an additional 3 ft on all sides to confirm end of drums.
- Backfilled TP-25 at 1115

67 drums from TP-25

10/31/13

Started removing drums from TP-26-AOC04 at 1242

|||| |||| |||| |||| (20 total)

- All drums appeared to be empty
- Backfilled at 1318

Started removing drums from TP-28-AOC04 at 1336

|||| |||| (9 total) all empty

- left open to record depth to native. Moved to Bank-01 in southern portion of property to pull drums.

Began pulling drums from Bank-01 at 1415 (29 total)

|||| |||| |||| |||| |||| ||||

- ~~Most~~ of Contents consist of black liquid sludge or black oil.

10/31/13

Backfilled Bank-01 at 1512

Moved to TP-28-AOC04 to backfill at 1520

Begin TP-44 along gravel road at 1539.

- Native @ 2.8 ft bgs
TD @ 3ft.

- Backfilled at 1546

Begin TP-45 at 1552 (along gravel road.
- Native at 2 ft
- Backfilled at 1606

11/1/13

EA & SJB onsite @ 0715

Weather: Mostly cloudy, rain, heavy W winds, 56
Forecast: Partly sunny, high W winds, 59

- Begin ~~TP-24B~~ Bank-02 at 0750.
- A total of __ drums removed and staged on 6-mil poly sheeting.

~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ |||| (24 Total)

- Native Clay @ 7.0' bgs.
- Water table @ 6.5' bgs.

- Finish Bank-02 @ 0910

Begin TP-46 (fill estimate) at 0925. (#1 on Fig)

- Composite sample collected from ~~fill material~~ piles:

(915239-TP-46 @ 0940)

Backfilled TP-46 at 0948

11/1/13

Begin TP-47 (Fill) at 1000 (#2 on Figure)
- 14 ft bgs to native
- composite sample collected from fill material pile:

(915239-TP-47 at 1025)

- Backfilled TP-47 at 1030

Begin TP-48 (fill) at 1035 (#3 on figure, moved approx. 20 yds to the N)
- 4.5 ft to native & water
- composite collected from fill mat.:

(915239-TP-48 at 1040)

Begin TP-49 (fill) at 1105 (#6 on figure)
- Alot of water & wood, sheen on water.
- 6 ft to native

(915239-TP-49 at 1113)

NOTE: Eliminated #'s 4 & 5 on the figure. (MW-06 @ #4 & several TPs completed at #5)

11-21-13

WX: Am - 40F / Cloudy.
Pm - N/A

- R. Peterson (EA) on-site @ 07:30.
- BFC Trucking delivered one roll off @ 0745.
off-site @ 0830.

11/25/13

EA onsite at 0730.
Weather: Cloudy, light snow, wind W, 25°F
Forecast: Partly sunny, wind SW, 33

OP-TECH onsite at 0845
- Loader onsite at 0910

Began to crush and load drums into roll off that was delivered last week.
- Roll off was delivered w/ one bag liner. OP-TECH installed 6 mil plastic over top.

Two roll offs were delivered at 0930 and staged east of AOC 04 along gravel access road.

All roll offs were filled w/ drums from AOC 04 (~ 86 drums/roll off). Drums w/ residual liquid were drained to surface soil & scraped into roll off. Three addl. roll offs are expected tomorrow.

Offsite at 1630

11/26/13

EA onsite at 0700
OPtech onsite at 0800

Weather: 25, light snow, SW
Forecast: 36, snow, SW

Remaining drums from AOC04 and drums from AOC01, 02, 03 were placed into double lined roll offs (delivered this morning @ 0800)

- 3rd roll off delivery canceled.

RIC-MW-8	22.89	32.55
RIC-MW-9	3.94	22.32
MW-6	7.81	17.87
MW-5	6.27	15.92
MW-4	4.37	16.45
MW-7	7.93	21.93
MW-3	4.35	22.50
MW-2	5.66	11.52
MW-1	8.69	13.53
RIC-MW-5	5.44	32.65
RIC-MW-6	6.77	32.98
RIC-MW-4	4.78	21.77
RIC-MW-1	9.32	22.13
RIC-MW-7	6.42	32.54

Appendix C

Waste Profile Sheets

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH889191

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYR000206466*** GENERATOR NAME: ***NYSDEC Region 9***

GENERATOR CODE (Assigned by Clean Harbors) ***NY10826*** CITY ***Tonawanda*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14150***

ADDRESS ***5565 River Road*** PHONE: **(315) 565-6550**

CUSTOMER CODE (Assigned by Clean Harbors) ***EA1186*** CUSTOMER NAME: ***Ea Engineering Science & Technology***

ADDRESS ***6712 Brooklawn Parkway Suite 104*** CITY ***Syracuse*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13211***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Debris (crushed drums, PPE, poly)***

PROCESS GENERATING WASTE: **Remediation**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- [x] SOLID WITHOUT FREE LIQUID
- [ ] POWDER
- [ ] MONOLITHIC SOLID
- [ ] LIQUID WITH NO SOLIDS
- [ ] LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- [ ] SLUDGE
- [ ] GAS/AEROSOL

NUMBER OF PHASES/LAYERS

1 2 3

% BY VOLUME (Approx.)

TOP ***0.00***

MIDDLE ***0.00***

BOTTOM ***0.00***

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR

Brown/Black

ODOR
- [ ] NONE
- [x] MILD
- [ ] STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- [x] 1-9%
- >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- [x] > 20
- Unknown

BTU/LB (MJ/kg)
- < 2,000 (<4.6)
- [x] 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
CRUSHED DRUMS	75.0000000	--	90.0000000	%
LEAD(TCLP)	7.3000000	--	7.3000000	PPM
PCBS	0.0000000	--	120000.0000000	PPM
POLY	5.0000000	--	10.0000000	%
PPE	1.0000000	--	3.0000000	%
TRICHLOROETHENE	0.6900000	--	0.6900000	PPM

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? [x] YES [ ] NO

If yes, describe, including dimensions: ***crushed metal drums see pictures***

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? [ ] YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? [ ] YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. [ ] YES [ ] NO

Chemical disinfection or some other form of sterilization has been applied to the waste. [ ] YES [ ] NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. [ ] YES [ ] NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. [ ] YES [ ] NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G43*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W301***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0	*7.3000*	*38000.0000000*	*PPM*	
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑

	VOLATILE COMPOUNDS		
D018	BENZENE	0.5	
D019	CARBON TETRACHLORIDE	0.5	
D021	CHLOROBENZENE	100.0	
D022	CHLOROFORM	6.0	
D028	1,2-DICHLOROETHANE	0.5	
D029	1,1-DICHLOROETHYLENE	0.7	
D035	METHYL ETHYL KETONE	200.0	
D039	TETRACHLOROETHYLENE	0.7	
D040	TRICHLOROETHYLENE	0.5	*0.6900*
D043	VINYL CHLORIDE	0.2	
	SEMI-VOLATILE COMPOUNDS		
D023	o-CRESOL	200.0	
D024	m-CRESOL	200.0	
D025	p-CRESOL	200.0	
D026	CRESOL (TOTAL)	200.0	
D027	1,4-DICHLOROBENZENE	7.5	
D030	2,4-DINITROTOLUENE	0.13	
D032	HEXACHLOROBENZENE	0.13	
D033	HEXACHLOROBUTADIENE	0.5	
D034	HEXACHLOROETHANE	3.0	
D036	NITROBENZENE	2.0	
D037	PENTACHLOROPHENOL	100.0	
D038	PYRIDINE	5.0	
D041	2,4,5-TRICHLOROPHENOL	400.0	
D042	2,4,6-TRICHLOROPHENOL	2.0	
	PESTICIDES AND HERBICIDES		
D012	ENDRIN	0.02	
D013	LINDANE	0.4	
D014	METHOXYCHLOR	10.0	
D015	TOXAPHENE	0.5	
D016	2,4-D	10.0	
D017	2,4,5-TP (SILVEX)	1.0	
D020	CHLORDANE	0.03	
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008	

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

NONE
☑ < 1000 PPM
>= 1000 PPM

PCBs

NONE
< 50 PPM
☑ >=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

☑ YES NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES	EXPLOSIVE	FUMING	☑ OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	NONE OF THE ABOVE

F. REGULATORY STATUS

☑ YES NO USEPA HAZARDOUS WASTE?
D008 D040

☑ YES NO DO ANY STATE WASTE CODES APPLY?
B007
Texas Waste Code

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

☑ YES NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
LDR CATEGORY: ***This is subject to LDR.***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES ☑ NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

☑ YES NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?
Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES ☑ NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? _____ Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

CONTAINERIZED

0-0 CONTAINERS/SHIPMENT

STORAGE CAPACITY:
CONTAINER TYPE:
CUBIC YARD BOX PALLET
TOTE TANK DRUM
OTHER:
DRUM SIZE:

BULK LIQUID

GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

☑ **BULK SOLID**

SHIPMENT UOM: ☑ TON YARD

TONS/YARDS/SHIPMENT: ***18.00 Min - 22.00 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:
Approve for Grassy Mountain Analytical attached

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
Robert Casey	ROBERT S. CASEY	PROJECT MANAGER	10/15/2014

WASTE MATERIAL PROFILE SHEET

Clean Harbors Profile No. CH889200

A. GENERAL INFORMATION

GENERATOR EPA ID #/REGISTRATION # ***NYR000206466*** GENERATOR NAME: ***NYSDEC Region 9***

GENERATOR CODE (Assigned by Clean Harbors) ***NY10826*** CITY ***Tonawanda*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***14150***

ADDRESS ***5565 River Road*** PHONE: **(315) 565-6550**

CUSTOMER CODE (Assigned by Clean Harbors) ***EA1186*** CUSTOMER NAME: ***Ea Engineering Science & Technology***

ADDRESS ***6712 Brooklawn Parkway Suite 104*** CITY ***Syracuse*** STATE/PROVINCE ***NY*** ZIP/POSTAL CODE ***13211***

B. WASTE DESCRIPTION

WASTE DESCRIPTION: ***Soil***

PROCESS GENERATING WASTE: **Remediation**

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER ? **No**

C. PHYSICAL PROPERTIES (at 25C or 77F)

PHYSICAL STATE
- [x] SOLID WITHOUT FREE LIQUID
- [ ] POWDER
- [ ] MONOLITHIC SOLID
- [ ] LIQUID WITH NO SOLIDS
- [ ] LIQUID/SOLID MIXTURE
  - % FREE LIQUID
  - % SETTLED SOLID
  - % TOTAL SUSPENDED SOLID
- [ ] SLUDGE
- [ ] GAS/AEROSOL

NUMBER OF PHASES/LAYERS: 1 2 3

% BY VOLUME (Approx.): TOP ***0.00*** MIDDLE ***0.00*** BOTTOM ***0.00***

VISCOSITY (If liquid present)
- 1 - 100 (e.g. Water)
- 101 - 500 (e.g. Motor Oil)
- 501 - 10,000 (e.g. Molasses)
- > 10,000

COLOR: ***Brown/Black***

ODOR
- [ ] NONE
- [x] MILD
- [ ] STRONG

Describe:

BOILING POINT °F (°C)
- <= 95 (<=35)
- 95 - 100 (35-38)
- 101 - 129 (38-54)
- >= 130 (>54)

MELTING POINT °F (°C)
- < 140 (<60)
- 140-200 (60-93)
- [x] > 200 (>93)

TOTAL ORGANIC CARBON
- <= 1%
- [x] 1-9%
- >= 10%

FLASH POINT °F (°C)
- < 73 (<23)
- 73 - 100 (23-38)
- 101 -140 (38-60)
- 141 -200 (60-93)
- > 200 (>93)

pH
- <= 2
- 2.1 - 6.9
- 7 (Neutral)
- [x] 7.1 - 12.4
- >= 12.5

SPECIFIC GRAVITY
- < 0.8 (e.g. Gasoline)
- 0.8-1.0 (e.g. Ethanol)
- 1.0 (e.g. Water)
- 1.0-1.2 (e.g. Antifreeze)
- [x] > 1.2 (e.g. Methylene Chloride)

ASH
- < 0.1
- 0.1 - 1.0
- 1.1 - 5.0
- 5.1 - 20.0
- [x] > 20
- Unknown

BTU/LB (MJ/kg)
- < 2,000 (<4.6)
- [x] 2,000-5,000 (4.6-11.6)
- 5,000-10,000 (11.6-23.2)
- > 10,000 (>23.2)

Actual:

D. COMPOSITION (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
LEAD(TCLP)	7.3000000	--	7.3000000	PPM
PCBS	0.0000000	--	120000.0000000	PPM
SOIL	5.0000000	--	90.0000000	%
TRICHLOROETHENE	0.6900000	--	0.6900000	PPM

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX., METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")? YES [x] NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM? YES [x] NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING; ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL? YES [x] NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material. YES NO

Chemical disinfection or some other form of sterilization has been applied to the waste. YES NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS. YES NO

I ACKNOWLEDGE THAT MY FRIABLE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED. YES NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE. ***G43*** SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. ***W301***

E. CONSTITUENTS

Are these values based on testing or knowledge? Knowledge ☑ Testing

If constituent concentrations are based on analytical testing, analysis must be provided. Please attach document(s) using the link on the Submit tab.

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP mg/l	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0				☑
D005	BARIUM	100.0				☑
D006	CADMIUM	1.0				☑
D007	CHROMIUM	5.0				☑
D008	LEAD	5.0	*7.3000*	*38000.0000000*	*PPM*	
D009	MERCURY	0.2				☑
D010	SELENIUM	1.0				☑
D011	SILVER	5.0				☑
	VOLATILE COMPOUNDS					
D018	BENZENE	0.5				
D019	CARBON TETRACHLORIDE	0.5				
D021	CHLOROBENZENE	100.0				
D022	CHLOROFORM	6.0				
D028	1,2-DICHLOROETHANE	0.5				
D029	1,1-DICHLOROETHYLENE	0.7				
D035	METHYL ETHYL KETONE	200.0				
D039	TETRACHLOROETHYLENE	0.7				
D040	TRICHLOROETHYLENE	0.5	*0.6900*			
D043	VINYL CHLORIDE	0.2				
	SEMI-VOLATILE COMPOUNDS					
D023	o-CRESOL	200.0				
D024	m-CRESOL	200.0				
D025	p-CRESOL	200.0				
D026	CRESOL (TOTAL)	200.0				
D027	1,4-DICHLOROBENZENE	7.5				
D030	2,4-DINITROTOLUENE	0.13				
D032	HEXACHLOROBENZENE	0.13				
D033	HEXACHLOROBUTADIENE	0.5				
D034	HEXACHLOROETHANE	3.0				
D036	NITROBENZENE	2.0				
D037	PENTACHLOROPHENOL	100.0				
D038	PYRIDINE	5.0				
D041	2,4,5-TRICHLOROPHENOL	400.0				
D042	2,4,6-TRICHLOROPHENOL	2.0				
	PESTICIDES AND HERBICIDES					
D012	ENDRIN	0.02				
D013	LINDANE	0.4				
D014	METHOXYCHLOR	10.0				
D015	TOXAPHENE	0.5				
D016	2,4-D	10.0				
D017	2,4,5-TP (SILVEX)	1.0				
D020	CHLORDANE	0.03				
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.008				

OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
BROMINE			☑
CHLORINE			☑
FLUORINE			☑
IODINE			☑
SULFUR			☑
POTASSIUM			☑
SODIUM			☑
AMMONIA			☑
CYANIDE AMENABLE			☑
CYANIDE REACTIVE			☑
CYANIDE TOTAL			☑
SULFIDE REACTIVE			☑

HOCs

NONE
☑ < 1000 PPM
>= 1000 PPM

PCBs

NONE
< 50 PPM
☑ >=50 PPM

IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 761?

☑ YES NO

ADDITIONAL HAZARDS

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES ☑ NO (If yes, explain)

CHOOSE ALL THAT APPLY

DEA REGULATED SUBSTANCES	EXPLOSIVE	FUMING	☑ OSHA REGULATED CARCINOGENS
POLYMERIZABLE	RADIOACTIVE	REACTIVE MATERIAL	NONE OF THE ABOVE

F. REGULATORY STATUS

☑ YES NO USEPA HAZARDOUS WASTE?
D008 D040

☑ YES NO DO ANY STATE WASTE CODES APPLY?
B007
Texas Waste Code

YES ☑ NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY?

☑ YES NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 268?
LDR CATEGORY: ***This is subject to LDR.***
VARIANCE INFO:

YES ☑ NO IS THIS A UNIVERSAL WASTE?

YES NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)?

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))?

YES ☑ NO DOES TREATMENT OF THIS WASTE GENERATE A F006 OR F019 SLUDGE?

YES ☑ NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.3(C)?

YES ☑ NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >=500 PPM?

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)?

YES ☑ NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)?

☑ YES NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE ?

YES ☑ NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?
Hazardous Organic NESHAP (HON) rule (subpart G) Pharmaceuticals production (subpart GGG)

YES ☑ NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?

YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?

YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) >10 Mg/year?

What is the TAB quantity for your facility? Megagram/year (1 Mg = 2,200 lbs)

The basis for this determination is: Knowledge of the Waste Or Test Data Knowledge Testing

Describe the knowledge :

G. DOT/TDG INFORMATION

DOT/TDG PROPER SHIPPING NAME:

RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III

H. TRANSPORTATION REQUIREMENTS

ESTIMATED SHIPMENT FREQUENCY ☑ ONE TIME WEEKLY MONTHLY QUARTERLY YEARLY OTHER

CONTAINERIZED
0-0 CONTAINERS/SHIPMENT
STORAGE CAPACITY:
CONTAINER TYPE:
CUBIC YARD BOX PALLET
TOTE TANK DRUM
OTHER:
DRUM SIZE:

BULK LIQUID
GALLONS/SHIPMENT: ***0 Min -0 Max*** GAL.

☑ **BULK SOLID**
SHIPMENT UOM: ☑ TON YARD
TONS/YARDS/SHIPMENT: ***18.00 Min - 22.00 Max***

I. SPECIAL REQUEST

COMMENTS OR REQUESTS:
Approve for AG.

GENERATOR'S CERTIFICATION

I certify that I am authorized to execute this document as an authorized agent. I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE	NAME (PRINT)	TITLE	DATE
	ROBERT S CASEY	PROJECT MANAGER	10/15/2014

WM
WASTE MANAGEMENT

EZ Profile™

Requested Facility: Model City (Hazardous Waste Facility) ☐ Unsure Profile Number: NY304721
☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number:

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: NYSDEC Region #9
2. Site Address: 5565 River Road
   (City, State, ZIP): Tonawanda NY 14170
3. County: Erie
4. Contact Name: Robert Casey
5. Email:
6. Phone: (716) 851-7220 7 Fax:
8. Generator EPA ID: NYR000206466 ☐ N/A
9. State ID: ☑ N/A

B. BILLING INFORMATION ☑ SAME AS GENERATOR

1. Billing Name: OPTECH
2. Billing Address: 1 Adler Drive
   (City, State, ZIP): East Syracuse NY 13057
3. Contact Name: Linda Scott
4. Email: scottl@op-tech.us
5. Phone: (716) 525-1962 6 Fax: (716) 525-1967
7. WM Hauled? ☐ Yes ☑ No
8. P.O. Number: FEAE0017
9. Payment Method: ☑ Credit Account ☐ Cash ☐ Credit Card

C. MATERIAL INFORMATION

1. Common Name: PCB Oil
   Describe Process Generating Material: ☐ See Attached
   Buried drums which contained oil were emptied and the contents transferred into 85 gallon drums.
2. Material Composition and Contaminants: ☐ See Attached

1. Oil	100 %
2. PCBs	22,000 PPM
3. Total Lead	260 PPM
4.	
Total composition must be equal to or greater than 100%	≥100%

3. State Waste Codes: B003 ☐ N/A
4. Color: Brown
5. Physical State at 70°F: ☐ Solid ☑ Liquid ☐ Other:
6. Free Liquid Range Percentage: 100 to 100 ☐ 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: D008
2. State Hazardous Waste? ☑ Yes ☐ No
   Code: B003
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. Contains benzene and subject to 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: 4
   ☐ Tons ☐ Yards ☑ Drums ☐ Gallons ☐ Other:
3. Container Type and Size: 85 gallon
4. USDOT Proper Shipping Name: ☐ N/A
   RQ, UN2315, Polychlorinated Biphenyl Liquids 9 PG II

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 contained 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 I 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 on the enclosed 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 CASEY Date: 12/11/13
Title: OPERATIONS MANAGER
Company: EA SCIENCE & TECHNOLOGY

Certification Signature

EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: NY304721

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1). If more space is needed, please attach additional pages

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages

5.	
6.	
7.	
8.	
9.	
10.	
Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers:
   b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? ☐ Yes ☑ No
   c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4 ☐ Yes ☑ No
   d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? ☑ Yes ☐ No
      → If Yes, please check one of the following:
      ☐ Waste meets LDR or treatment exemptions for organics (40 CFR 264 1082(c)(2) or (c)(4))
      ☑ Waste contains VOCs that average <500 ppmw (CFR 264 1082(c)(1)) – will require annual update
2. State Hazardous Waste → Please list all state waste codes _____
3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
   ☐ Delisted Hazardous Waste ☐ Excluded Waste under 40 CFR 261 4 → Specify Exclusion: _____
   ☐ Treated Hazardous Waste Debris ☐ Treated Characteristic Hazardous Waste → If checked, complete question 4
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:
5. Benzene NESHAP → Please include percent water/moisture in chemical composition.
   a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire If not, continue.
   b. What is your facility's current total annual benzene quantity in Megagrams? ☐ <1 Mg ☐ 1-9 99 Mg ☐ ≥10 Mg
      1 Flow weighted average benzene concentration is _____ ppmw.
   c. Is this waste soil from remediation at a closed facility? ☐ Yes ☐ No
      1 Benzene concentration in remediation waste is _____ ppmw
   d. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? ☐ Yes ☐ No
   e. Is material exempt from controls in accordance with 40 CFR 61.342? ☐ Yes ☐ No
      → If yes, specify exemption _____
   f. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? ☐ Yes ☐ No
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? ☐ Yes ☐ No
7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility
8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____

Appendix D

Over-pack Drum Oil Waste and Drum Contents Waste Disposal Manifests

SY 1402053904-004 SC PPW 8/10/2014

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000206466	1	(800) 483-3718	007483427 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC Region 9
5565 River Road
Tonawanda, NY 14150
Generator's Phone: (315) 565-6550

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Clive, LLC
3.5 Miles South of Exit 49 off I80
Grantsville, UT 84029
Facility's Phone: (801) 323-8900
U.S. EPA ID Number
UTD982595795

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. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	1	CM	20	Y	B007	D008	D040
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH771180B ERG#171 CHRT27142 OSD

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 S. CAREY ON BEHALF OF NYSDEC
Signature:
Month: 9 Day: 29 Year: 14

TR ANSPORTER 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.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: PANANI GABIANOV
Signature:
Month: 9 Day: 29 Year: 14

Transporter 2 Printed/Typed Name: Cathy Seffel
Signature:
Month: 10 Day: 2 Year: 14

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: Cathy Seffel
Signature:
Month: 10 Day: 2 Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

BY 1402063904-004 SC PPW 8/10/2014

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 NYR000206466	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 007483429 FLE

5. Generator's Name and Mailing Address
NYSDEC Region 9
5565 River Road
Tonawanda, NY 14150
Generator's Phone: (315) 565-6550

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Clive, LLC
3.5 Miles South of Exit 49 off I80
Grantsville, UT 84029
Facility's Phone: (801) 323-8900
U.S. EPA ID Number
UTD982595795

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. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	1	CM	12	T	B007	D008	D040
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH771180B ERG#171
CHRT 27167

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 SCAFFY ON BEHALF OF NYSDEC
Signature:
Month 09 Day 29 Year 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: WILLIAM S. STERN
Signature:
Month 09 Day 29 Year 14

Transporter 2 Printed/Typed Name
Signature
Month Day Year

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. H141 2. 3. 4.

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: Cathy Scaffidi
Signature:
Month 10 Day 3 Year 14

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

SY 140205304004 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	2. Page 1 of 1	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000206466		(800) 483-3718	007483428 FLE

5. Generator's Name and Mailing Address
NYSDEC Region 9
5565 River Road
Tonawanda, NY 14150
(315) 565-6550
Generator's Phone:

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Clive, LLC
3.5 Miles South of Exit 49 off I80
Grantsville, UT 84029
Facility's Phone: (801) 323-8900
U.S. EPA ID Number: UTD982595795

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. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	1	CM	2	Y	B007	D008	D040
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH771180B ERG#171
CAN# CHRT 27128 OD 9/29/14

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 S. CASEY ON BEHALF OF NYSDEC — Signature: [signature] — Month 9 Day 29 Year 14

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: CRISTIAN MUNOZ — Signature: [signature] — Month 9 Day 29 Year 14
Transporter 2 Printed/Typed Name: Cathy Sifford — Signature: [signature] — Month 10 Day 2 Year 14

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. H141 2. 3. 4.

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: Cathy Sifford — Signature: [signature] — Month 10 Day 2 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

SY 1402053904-004 SC PPW 8/10/2014

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	2. Page 1 of 1	3. Emergency Response Phone (800) 483-9715	4. Manifest Tracking Number 007483430 FLE

5. Generator's Name and Mailing Address
NYSDEC Region 9
5565 River Road
Tonawanda, NY 14150
(315) 565-6550
Generator's Phone:

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name
~~Clean Harbors Environmental Services Inc~~ PRICE TRUCKING
U.S. EPA ID Number
~~MAD980732250~~ NYD046765574

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Clive, LLC
9.5 Miles South of Exit 49 off I80
Grantsville, UT 84029
Facility's Phone: (801) 323-8900
U.S. EPA ID Number
UTD982595795

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. RQ, UN3432, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	1	CM	EST 10,909	K	B007	D008	D040
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1.CH771180B ERG#171

CHRT 27092 005 9/23/14

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 S LACEY ON BEHALF OF NYSDEC
Signature:
Month 9 Day 23 Year 14

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Monte Miles
Signature:
Month 9 Day 23 Year 14

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

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. H141	2.	3.	4.

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: Cathy Sofiel
Signature:
Month 9 Day 26 Year 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clive Facility
Weight Ticket

ruck # ______________________________

nker/Box/
nd dump # CHRT 27167

2:46 PM 10 03 14
61400 lb

gnal Tanker/
ondola # ______________________________

r name William S Stern

si

2:59 PM 10 03 14
61400 lb
36480 lb TR
24920 lb NET

19,760

5160
Already
Taken
Off

s

ision Date: 9-25-2012 Date: 9-2013

Clive Facility
Weight Ticket

[illegible]

ruck # ____________________

nker/Box/
nd dump # CHRT 21096

ginal Tanker/
ondola # ____________________

er name Monte Miles

1st

nd

s

[illegible]
[illegible] 15
[illegible]
[illegible] NET

1620

5166
Already Taken
[illegible]

Clive Facility
Weight Ticket

...uck # ______________________________

...oker/Box/
...ad dump # CHRT 27192

...inal Tanker/
...ondola # ______________________________

...r name [illegible]

2:04 PM 10 02 14
51840 lb

...st

...s

3:09 PM 10 02 14
51840 lb
32160 lb TR
19680 lb NET
13,580

...sion Date: 2-25-2012 Rev: 9-2013

Clive Facility
Weight Ticket

ruck # ______________________

akes/Box/
od dump # CHRT 27128

gnal Tanka/
ondola # ______________________

r name Christian Manie

st

3:25 PM 10 02 14
51700 lb

s

3:25 AM 10 02 14
[illegible] lb
29460 lb TR
22240 lb NET
16 140

Alleady / [illegible]

Date: 2-25 2012 Due: 2-2013

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000206466	1	800-225-6750	003045003 FLE

GENERATOR

5. Generator's Name and Mailing Address
NYS DEC Region #9
270 Michigan Ave. Buffalo, NY 14203
716-851-7220
Generator's Phone:

Generator's Site Address (if different than mailing address)
5585 River Road
Tonawanda, NY 14170

6. Transporter 1 Company Name
OP-TECH Environmental Svcs, Inc.
U.S. EPA ID Number
NYD986980753

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CWM Chemical Services, Inc.
1550 Balmer Road
Model City, NY 14107 716-754-8231
Facility's Phone:
U.S. EPA ID Number
NYD049836679

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. RQ, NA3082, Hazardous Waste Liquid,NOS (Polychlorinated Biphenyls, D003),9,PG II ERG # 171	4	DM	1390 lst	K	D003	D008	B
	2.							
	3.							
	4. Service Request #							

14. Special Handling Instructions and Additional Information
NY304721 Job # FEAE00017 PO # FEAE0017-10 OOS Date: 11-26-13

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: Glenn M. May
Signature: Glenn M May
Month: 9 Day: 11 Year: 14

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: Mike Reilly
Signature: Mike Reilly
Month: 9 Day: 11 Year: 14

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.

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:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

LDR NOTIFICATION OR CERTIFICATION FORM
For New York Regulated PCB Waste

This form is required for wastes containing 50 ppm PCB or greater. The profiled waste on the manifest number indicated below is listed hazardous waste ("B-coded") in NY. Note: 50-500 ppm PCB drained articles and small capacitors (as defined in 40CFR761.3) are not regulated by NY State. ***Please complete items 1.- 8. and send with the first shipment of waste/profile.***

1.) Generator Name NYS DEC Region # 9

2.) Manifest Number 003045003 FLE **3.) CWM Profile#** NY304721

4.) Please check *all* boxes that apply.

NY Waste Code	Identity/Type of PCB Waste	
B001	☐ Concentrated PCB Oil	
B002	☐ Oil/liquid 50-499 ppm PCBs	
B003	☒ Oil/liquid 500 ppm or greater PCBs	
B004	Manufactured PCB Articles 50-499 ppm:	☐ transformers ☐ motors ☐ switches ☐ cable ☐ pumps ☐ pipe ☐ large capacitors ☐ bushings ☐ other (specify):
B005	Manufactured PCB Articles (other than transformers) 500 ppm or greater:	☐ motors ☐ switches ☐ cable ☐ pumps ☐ pipe ☐ large capacitors ☐ bushings ☐ other (specify):
B006	☐ PCB Transformers 500 ppm or greater	
B007	Other PCB Wastes:	☐ soil ☐ sludge ☐ clothing ☐ rags ☐ wood ☐ other (specify):

5.) Check *one* box as appropriate.

CERTIFICATION - WASTE MEETS LAND DISPOSAL TREATMENT STANDARDS

☐ I am the generator of the waste as identified above, that is restricted under 6 NYCRR Part 376. I have determined that this waste **meets** all applicable treatment standards set forth in 6 NYCRR 376 and, therefore, it can be landfilled without further treatment. Waste does not include solidified B002 material (liquid with PCBs 50-500ppm).

I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 6 NYCRR Part 376, section 376.4. and all applicable prohibitions set fort in 376.3(b) of part 376 or RCRA section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

NOTIFICATION – WASTE DOES NOT MEET LAND DISPOSAL TREATMENT STANDARDS

☒ I am the generator of a waste restricted under 6 NYCRR Part 376 as identified above. I notify that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste **does not** comply with the treatment standards specified in 6 NYCRR Part 376.4 (f). This waste must be treated to the applicable standards set forth in 6 NYCRR 376.4 (f) prior to land disposal.

6.) Signature Mona M May

7.) Title Engr Geologist II **8.) Date** 9-11-14

PCB MANIFEST CONTINUATION FORM

Manifest No: 003045003 FLE

Important: For each PCB regulated container or article, the information below is required by USEPA to be on the manifest or on a Continuation Form (with the exception of profile). Please reference 40CFR 761.207(a)(2) and (3) for additional information.

Manifest Line	Profile	Serial # or Unique ID # of container or article	Type of PCB Waste *soil, debris, lg .capacitor, small cap. ect. ("solid" is not acceptable)*	Date of Removal From Service (O.S.D.)	Weight in Kilograms (K)
9b1	NY304724	# 001 – 004	PCB Oil	11/26/13	1390

(Make additional copies as needed)

1/21/14 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM (PHASE IV) NDC NY3044721

Generator Name: NEW YORK STATE DEPT ENV CONS Manifest Doc. No.: EAE017

Profile Number: NY3044721 State Manifest No: 003045003 FLE

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Nonwastewater X Wastewater
2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent treatment standards are listed on the following page. If F039, multi-source leachate applies, those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS WASTE CODE(S)	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
		DESCRIPTION	NONE	
1	D009	NON-CWA, NON-CLASS 1 MANAGED		A
2				
3				
4				

To identify F039 or D001-D043, underlying hazardous constituent(s), use the "F039/Underlying Hazardous Constituent Form" provided (CWM-2004) and check here: X
If no UHCs are present in the waste upon its initial generation check here:
To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (CWM-2005-D) and check here:
Disposal facility monitors for all UHCs check here
If waste will be managed in a system regulated under the CWA, or a Class 1 injection well under the SDWA check here

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, B5, B6, C, D or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, B5, B6, or D you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

A. RESTRICTED WASTE REQUIRES TREATMENT
This waste must be treated to the applicable treatment standards set forth in 40 CFR 268.40.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45."

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40 without impermissible dilution of the prohibited waste. I am aware there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.4 DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS
"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

B.6 RESTRICTED DEBRIS TREATED TO ALTERNATE PERFORMANCE STANDARDS
"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and believe that it has been maintained and operated properly so as to comply with treatment standards specified in 40 CFR 268.45 without impermissible dilution of the prohibited wastes. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE
This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
"I certify under penalty of law I have personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

E. WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS
This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature [signature] Title Engr. Manager II Date 9-11-14

F039/UNDERLYING HAZARDOUS CONSTITUENT FORM(UTS)

Generator Name: NEW YORK STATE DEPT ENV CONS
Profile Number: NY3004721 - MDC

Manifest Doc. No.: EAE017
State Manifest No.: 00304503 FLE

If D001-D043 requires treatment to 268.48 standards, then each underlying hazardous constituent present in the waste at the point of generation, and at a level above the UTS constituent specific treatment standard, must be listed. Write the letter (A, B1, B3, or C which corresponds to the letter on form CWM-2005-A) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to the 268.49 standards, then each UHC in the waste at the point of generation, and at a level above 10 x the UTS must be listed. Write the letter (A.1, B.5, D, or E) which corresponds to the letter on form CWM-2005-E beside each constituent present.

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)
Treater will monitor all UHCs (no dioxin		1	1	4-Bromophenyl phenyl ether		0.055	15
Treater monitors all UHCs(no m-Cumenylmc		1	1	n-Butanol (n-butyl alcohol)		5.6	2.6
Acenaphthylene		0.059	3.4	Butyl benzyl phthalate		0.017	28
Acenaphthene		0.059	3.4	Butylate		0.042 [2]	1.4 [2]
Acetone		0.28	160	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)		0.066	2.5
Acetonitrile		5.6	38 [2]	Carbon disulfide		3.8	4.8 [1,2]
Acetophenone		0.010	9.7	Carbaryl		0.006 [2]	0.14 [2]
2-Acetylaminofluorene		0.059	140	Carbendazim		0.056 [2]	1.4 [2]
Acrolein		0.29	NA	Carbofuran		0.006 [2]	0.14 [2]
Acrylamide		19 [2]	23 [2]	Carbofuran phenol		0.056 [2]	1.4 [2]
Acrylonitrile		0.24	84	Carbon tetrachloride		0.057	6.0
Aldicarb Sulfone		0.056 [2]	0.28 [2]	Carbosulfan		0.028 [2]	1.4 [2]
Aldrin		0.021	0.066	Chlordane (alpha & gamma)		0.0033	0.26
4-Aminobiphenyl		0.13	NA	p-Chloroaniline		0.46	16
Aniline		0.81	14	Chlorobenzene		0.057	6.0
o-Anisidine (or 2-methoxyaniline		0.81	14	Chlorobenzilate		0.10	NA
Anthracene		0.059	3.4	2-chloro-1,3-butadiene		0.057	0.28 [2]
Aramite		0.36	NA	Chlorodibromomethane		0.057	15
alpha-BHC		0.00014	0.066	Chloroethane		0.27	6.0
beta-BHC		0.00014	0.066	bis-(2-Chloroethoxy) methane		0.036	7.2
delta-BHC		0.023	0.066	bis-(2-Chloroethyl) ether		0.033	6.0
gamma-BHC (Lindane)		0.0017	0.066	Chloroform		0.046	6.0
Barban		0.056 [2]	1.4 [2]	bis-(2-Chloroisopropyl) ether		0.055	7.2
Bendiocarb		0.056 [2]	1.4 [2]	p-Chloro-m-cresol		0.018	14
Benomyl		0.056 [2]	1.4 [2]	2-Chloroethyl Vinyl ether		0.062 [2]	NA [2]
Benzene		0.14	10	Chloromethane (methyl chloride)		0.19	30
Benzo (a) anthracene		0.059	3.4	2-Chloronaphthalene		0.055	5.6
Bensal chloride		0.055 [2]	6.0 [2]	2-Chlorophenol		0.044	5.7
Benzo (b) fluoranthene [4]		0.11	6.8	3-Chloropropylene		0.036	30
Benzo (k) fluoranthene [4]		0.11	6.8	Chrysene		0.059	3.4
Benzo (g,h,i) perylene		0.0055	1.8	p-Cresidine		0.010	0.66
Benzo (a) pyrene		0.061	3.4	o-Cresol		0.11	5.6
Bromodichloromethane		0.35	15	Cresol (m- and p- isomers)		0.77	5.6
Bromoform (Tribromomethane)		0.63	15	m-Cumenyl methylcarbamate		0.056 [2]	1.4 [2]
Bromomethane (methyl bromide)		0.11	15	Cyclohexanone		0.36	0.75 [1,2]

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)
1,2-Dibromo-3-Chloropropane		0.11	15
1,2-Dibromoethane (Ethylene dibromide)		0.028	15
Dibromomethane		0.11	15
2,4-Dichlorophenoxyacetic acid (2,4-D)		0.72	10
o,p-DDD		0.023	0.087
p,p-DDD		0.023	0.087
o,p-DDE		0.031	0.087
p,p-DDE		0.031	0.087
o,p-DDT		0.0039	0.087
p,p-DDT		0.0039	0.087
Dibenzo (a,h) anthracene		0.055	8.2
Dibenzo (a,e) pyrene		0.061	NA
m-Dichlorobenzene		0.036	6.0
o-Dichlorobenzene		0.088	6.0
p-Dichlorobenzene		0.090	6.0
Dichlorodifluoromethane		0.23	7.2
1,1-Dichloroethane		0.059	6.0
1,2-Dichloroethane		0.21	6.0
1,1-Dichloroethylene		0.025	6.0
trans-1,2-Dichloroethylene		0.054	30
2,4-Dichlorophenol		0.044	14
2,6-Dichlorophenol		0.044	14
1,2-Dichloropropane		0.85	18
cis-1,3-Dichloropropene		0.036	18
trans-1,3-Dichloropropene		0.036	18
Dieldrin		0.017	0.13
Diethyl phthalate		0.20	28
p-Dimethylaminoazobenzene		0.13 [2]	NA
2,4-Dimethylaniline		0.010	0.66
2,4-Dimethyl phenol		0.036	14
Dimethyl phthalate		0.047	28
Di-n-butyl phthalate		0.057	28
1,4-Dinitrobenzene		0.32	2.3
4,6-Dinitro-o-cresol		0.28	160
2,4-Dinitrophenol		0.12	160
2,4-Dinitrotoluene		0.32	140
2,6-Dinitrotoluene		0.55	28
Di-n-octyl phthalate		0.017	28
Di-n-propylnitrosoamine		0.40	14
1,4-Dioxane		12	170
Diphenyl amine [4]		0.92	13 [2]
Diphenylnitrosoamine		0.92	13 [2]
1,2-Diphenyl hydrazine		0.087	NA
Disulfoton		0.017	6.2
Dithiocarbamates (total)		0.028 [2]	28 [2]
Endosulfan I		0.023	0.066
Endosulfan II		0.029	0.13
Endosulfan sulfate		0.029	0.13
Endrin		0.0028	0.13
Endrin aldehyde		0.025	0.13
EPTC		0.042 [2]	1.4 [2]
Ethyl acetate		0.34	33
Ethyl benzene		0.057	10
Ethyl cyanide (Propanenitrile)		0.24	360
Ethyl ether		0.12	160
bis-(2-Ethylhexyl) phthalate		0.28	28
Ethyl methacrylate		0.14	160
Ethylene oxide		0.12	NA
Famphur		0.017	15
Fluoranthene		0.068	3.4
Fluorene		0.059	3.4
Formetanate hydrochloride		0.056 [2]	1.4 [2]
Heptachlor		0.0012	0.066
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxi		0.000035	0.0025
1,2,3,4,6,7,8-heptachlorodibenzofuran		0.000035	0.0025
1,2,3,4,7,8,9-heptachlorodibenzofuran		0.000035	0.0025
Heptachlor epoxide		0.016	0.066
Hexachlorobenzene		0.055	10
Hexachlorobutadiene		0.055	5.6
Hexachlorocyclopentadiene		0.057	2.4
Hexachlorodibenzo-furans		0.000063	0.001
Hexachlorodibenzo-p-dioxins		0.000063	0.001
Hexachloroethane		0.055	30
Hexachloropropylene		0.035	30
Indeno (1,2,3-c,d) pyrene		0.0055	3.4
Iodomethane		0.19	65
Isobutanol (Isobutyl Alcohol)		5.6	170
Isodrin		0.021	0.066
Isosafrole		0.081	2.6
Kepone		0.0011	0.13
Methylacrylonitrile		0.24	84
Methanol		5.6	0.75 [1,2]

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)
Methapyrilene		0.081	1.5	Pentachloronitrobenzene		0.055	4.8
Methiocarb		0.056 [2]	1.4 [2]	Pentachlorophenol		0.089	7.4
Methomyl		0.028 [2]	0.14 [2]	Phenacetin		0.081	16
Methoxychlor		0.25	0.18	Phenanthrene		0.059	5.6
3-Methylcholanthrene		0.0055	15	Phenol		0.039	6.2
4,4-Methylene-bis-(2-chloroaniline)		0.50	30	1,3-Phenylenediamine		0.010	0.66
Methylene chloride		0.089	30	Phorate		0.021	4.6
Methyl ethyl ketone		0.28	36	Phthalic acid		0.055 [2]	28 [2]
Methyl isobutyl ketone		0.14	33	Phthalic anhydride		0.055	28 [2]
Methyl methacrylate		0.14	160	Physostigmine		0.056 [2]	1.4 [2]
Methyl methanesulfonate		0.018	NA	Physostigmine salicylate		0.056 [2]	1.4 [2]
Methyl parathion		0.014	4.6	Promecarb		0.056 [2]	1.4 [2]
Metolcarb		0.056 [2]	1.4 [2]	Pronamide		0.093	1.5
Mexacarbate		0.056 [2]	1.4 [2]	Propham		0.056 [2]	1.4 [2]
Molinate		0.042 [2]	1.4 [2]	Propoxur		0.056 [2]	1.4 [2]
Naphthalene		0.059	5.6	Prosulfocarb		0.042 [2]	1.4 [2]
2-Naphthylamine		0.52	NA	Pyrene		0.067	8.2
o-Nitroaniline		0.27 [2]	14 [2]	Pyridine		0.014	16
p-Nitroaniline		0.028	28	Safrole		0.081	22
Nitrobenzene		0.068	14	Silvex (2,4,5-TP)		0.72	7.9
5-Nitro-o-toluidine		0.32	28	2,4,5-T		0.72	7.9
1,3-phenylendiamine		0.10	0.66	1,2,4,5-Tetrachlorobenzene		0.055	14
o-Nitrophenol		0.028 [2]	13 [2]	Tetrachlorodibenzo-furans		0.000063	0.001
p-Nitrophenol		0.12	29	Tetrachlorodibenzo-p-dioxins		0.000063	0.001
N-Nitrosodiethylamine		0.40	28	1,1,1,2-Tetrachloroethane		0.057	6.0
N-Nitrosodimethylamine		0.40	2.3 [2]	1,1,2,2-Tetrachloroethane		0.057	6.0
N-Nitroso-di-n-butylamine		0.40	17	Tetrachloroethylene		0.056	6.0
N-Nitrosomethylethylamine		0.40	2.3	2,3,4,6-Tetrachlorophenol		0.030	7.4
N-Nitrosomorpholine		0.40	2.3	Thiodicarb		0.019 [2]	1.4 [2]
N-Nitrosopiperidine		0.013	35	Thiophanate-methyl		0.056 [2]	1.4 [2]
N-Nitrosopyrrolidine		0.013	35	Toluene		0.080	10
1,2,3,4,6,7,8,9-octachlorodibenzo-p-diox		0.000063	0.005	Toxaphene		0.0095	2.6
1,2,3,4,6,7,8,9-Octachlorodibenzofuran		0.000063	0.005	Triallate		0.042 [2]	1.4 [2]
Oxamyl		0.056 [2]	0.28 [2]	2,4,6-Tribromophenol		.035	7.4
Parathion		0.014	4.6	1,2,4-Trichlorobenzene		0.055	19
PCBs (Total) all isomers or Aroclors	A	0.10	10	1,1,1-Trichloroethane		0.054	6.0
Pebulate		0.042 [2]	1.4 [2]	1,1,2-Trichloroethane		0.054	6.0
Pentachlorobenzene		0.055	10	Trichloroethylene		0.054	6.0
Pentachloroethane		0.055 [2]	6.0 [2]	Trichloromonofluoromethane		0.020	30
Pentachlorodibenzo-furans		0.000035	0.001	2,4,5-Trichlorophenol		0.18	7.4
Pentachlorodibenzo-p-dioxins		0.000063	0.001	2,4,6-Trichlorophenol		0.035	7.4

CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)	CONSTITUENT	HOW MUST THIS CONSTITUENT BE MANAGED?	WW (mg/l)	NWW (mg/Kg)
1,2,3-Trichloropropane		0.85	30				
1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	30				
Triethylamine		0.081 [2]	1.5 [2]				
Tris(2,3-dibromopropyl) phosphate		0.11	0.10 [2]				
Vernolate		0.042 [2]	1.4 [2]				
Vinyl chloride		0.27	6.0				
Xylenes (sum of o-, m-, and p- isomers)		0.32	30				
Cyanides (Total)		1.2	590				
Cyanides (Amenable)		0.86	30				
Antimony		1.9	1.15 [5]				
Arsenic		1.4	5.0 [1]				
Barium		1.2	21 [1,5]				
Beryllium		0.82	1.22 [1,5]				
Cadmium		0.69	0.11 [1,5]				
Chromium (Total)		2.77	0.60 [1,5]				
fluoride [3]		35	NA				
Lead		0.69	0.75 [1,5]				
Mercury (Not from retorting)		0.15	0.025 [1]				
Nickel		3.98	11 [1,5]				
Mercury (From retorting)		N/A	0.20 [1]				
Selenium		0.82	5.7 [6]				
Silver		0.43	0.14 [1,5]				
Sulfide [3]		14	NA				
Thallium		1.4	0.20 [1,5]				
Vanadium [3]		4.3	1.6 [1]				
Zinc [3]		2.61	4.3				

1 These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract; all others measured through a total waste analysis.

2 These constituents are only applicable as Underlying Hazardous Constituents. They are not constituents requiring treatment in F039 wastes.

3 Not an underlying hazardous constituent requiring treatment in D001-D043 wastes, per 268.2(i).

4 These compounds are regulated by the sum of their concentration instead of as individual constituents.

5 These concentrations are effective in unauthorized states or states with no LDR program on August 24,1998. These concentrations are effective in all other states upon adoption by the state.

6 Effective August 24, 1998 in unauthorized states or states with no LDR program, Selenium at 5.7 Mg/L is not considered an underlying hazardous constituent in D001-D043 waste as it is above the characteristic level. This becomes effective in authorized states once that state adopts.

7 If a contaminated soil, and the alternative soil treatment standards are being utilised, the treatment standards for underlying hazardous constituents must be a 90% reduction of the constituent(s) or be less than 10 X the standards listed. Note that if the constituent concentration is less than 10 X UTS at the time of generation, that constituent is not considered an underlying hazardous constituent.

Appendix E

Laboratory Analytical Data Form 1's and Chain-of-Custody Forms

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-001
Client Id: 915239-TP-01-AOC01
Data File: 1M09075.D
Analysis Date: 11/04/13 13:47
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5.06g:10ml
Final Vol: NA
Dilution: 98.8
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.14	U	56-23-5	Carbon Tetrachloride	0.14	U
79-34-5	1,1,2,2-Tetrachloroethane	0.14	U	**108-90-7**	**Chlorobenzene**	**0.14**	**1.7**
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.14	U	75-00-3	Chloroethane	0.14	U
79-00-5	1,1,2-Trichloroethane	0.14	U	67-66-3	Chloroform	0.14	U
75-34-3	**1,1-Dichloroethane**	**0.14**	**1.4**	74-87-3	Chloromethane	0.14	U
75-35-4	1,1-Dichloroethene	0.14	U	156-59-2	cis-1,2-Dichloroethene	0.14	U
87-61-6	1,2,3-Trichlorobenzene	0.14	U	10061-01-5	cis-1,3-Dichloropropene	0.14	U
120-82-1	1,2,4-Trichlorobenzene	0.14	U	**110-82-7**	**Cyclohexane**	**0.14**	**0.16**
96-12-8	1,2-Dibromo-3-Chloropropa	0.14	U	124-48-1	Dibromochloromethane	0.14	U
106-93-4	1,2-Dibromoethane	0.14	U	75-71-8	Dichlorodifluoromethane	0.14	U
95-50-1	**1,2-Dichlorobenzene**	**0.14**	**0.60**	**100-41-4**	**Ethylbenzene**	**0.14**	**0.24**
107-06-2	1,2-Dichloroethane	0.071	U	**98-82-8**	**Isopropylbenzene**	**0.14**	**0.16**
78-87-5	1,2-Dichloropropane	0.14	U	**136777612**	**m&p-Xylenes**	**0.14**	**0.78**
541-73-1	**1,3-Dichlorobenzene**	**0.14**	**0.45**	79-20-9	Methyl Acetate	0.14	U
106-46-7	**1,4-Dichlorobenzene**	**0.14**	**1.3**	**108-87-2**	**Methylcyclohexane**	**0.14**	**0.44**
123-91-1	**1,4-Dioxane**	**7.1**	**19**	75-09-2	Methylene Chloride	0.14	U
78-93-3	2-Butanone	0.14	U	1634-04-4	Methyl-t-butyl ether	0.071	U
591-78-6	2-Hexanone	0.14	U	**95-47-6**	**o-Xylene**	**0.14**	**0.35**
108-10-1	4-Methyl-2-Pentanone	0.14	U	100-42-5	Styrene	0.14	U
67-64-1	Acetone	1.4	U	127-18-4	Tetrachloroethene	0.14	U
71-43-2	**Benzene**	**0.071**	**0.37**	**108-88-3**	**Toluene**	**0.14**	**0.62**
74-97-5	Bromochloromethane	0.14	U	156-60-5	trans-1,2-Dichloroethene	0.14	U
75-27-4	Bromodichloromethane	0.14	U	10061-02-6	trans-1,3-Dichloropropene	0.14	U
75-25-2	Bromoform	0.14	U	79-01-6	Trichloroethene	0.14	U
74-83-9	Bromomethane	0.14	U	75-69-4	Trichlorofluoromethane	0.14	U
75-15-0	Carbon Disulfide	0.14	U	75-01-4	Vinyl Chloride	0.14	U
1330-20-7	**Xylenes (Total)**	**0.14**	**1.13**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-001
Client Id: 915239-TP-01-AOC01
Data File: 1M09075.D
Analysis Date: 11/04/13 13:47
Date Rec/Extracted: 10/29/13-NA

Matrix: Methanol
Extraction Ratio: 5.06g:10ml
Final Vol: NA
Dilution: 98.8
Solids: 70
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	696-29-7	Cyclohexane, (1-methylethyl)-	6.73	1.2 J
2	108-67-8	Benzene, 1,3,5-trimethyl-	7.15	1.7 J
3	620-14-4	Benzene, 1-ethyl-3-methyl-	7.38	1.2 J
4	104-51-8	Benzene, butyl-	7.82	1.4 J
5	934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	8.62	2.9 J
6	108-70-3	Benzene, 1,3,5-trichloro-	8.89	1.3 J
7	91-20-3	Naphthalene	9.06	2.5 J
8	1685-82-1	1H-Indene, 2,3-dihydro-4,6-dimethyl-	9.41	1.2 J
9	23612-70-6	1H-Pyrrolo[2,3-b]pyridine, 3,4-dimethyl-	9.64	1.1 J
10	4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro-	9.80	2.5 J

Worksheet #: 283598

Total Tentatively Identified Concentration 17

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-002
Client Id: 915239-TP-04-AOC01
Data File: 6M03756.D
Analysis Date: 11/05/13 18:30
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.97g
Final Vol: NA
Dilution: 1.01
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0029	U	56-23-5	Carbon Tetrachloride	0.0029	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0029	U	108-90-7	Chlorobenzene	0.0029	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0029	U	75-00-3	Chloroethane	0.0029	U
79-00-5	1,1,2-Trichloroethane	0.0029	U	67-66-3	Chloroform	0.0029	U
75-34-3	1,1-Dichloroethane	0.0029	U	74-87-3	Chloromethane	0.0029	U
75-35-4	1,1-Dichloroethene	0.0029	U	156-59-2	cis-1,2-Dichloroethene	0.0029	U
87-61-6	1,2,3-Trichlorobenzene	0.0029	U	10061-01-5	cis-1,3-Dichloropropene	0.0029	U
120-82-1	1,2,4-Trichlorobenzene	0.0029	U	110-82-7	Cyclohexane	0.0029	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0029	U	124-48-1	Dibromochloromethane	0.0029	U
106-93-4	1,2-Dibromoethane	0.0029	U	75-71-8	Dichlorodifluoromethane	0.0029	U
95-50-1	1,2-Dichlorobenzene	0.0029	U	100-41-4	Ethylbenzene	0.0014	U
107-06-2	1,2-Dichloroethane	0.0014	U	98-82-8	Isopropylbenzene	0.0014	U
78-87-5	1,2-Dichloropropane	0.0029	U	136777612	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0029	U	79-20-9	Methyl Acetate	0.0029	U
106-46-7	1,4-Dichlorobenzene	0.0029	U	108-87-2	Methylcyclohexane	0.0029	U
123-91-1	1,4-Dioxane	0.14	U	75-09-2	Methylene Chloride	0.0029	U
78-93-3	2-Butanone	0.0029	U	1634-04-4	Methyl-t-butyl ether	0.0014	U
591-78-6	2-Hexanone	0.0029	U	95-47-6	o-Xylene	0.0014	U
108-10-1	4-Methyl-2-Pentanone	0.0029	U	100-42-5	Styrene	0.0029	U
67-64-1	Acetone	0.014	U	127-18-4	Tetrachloroethene	0.0029	U
71-43-2	Benzene	0.0014	U	108-88-3	Toluene	0.0014	U
74-97-5	Bromochloromethane	0.0029	U	156-60-5	trans-1,2-Dichloroethene	0.0029	U
75-27-4	Bromodichloromethane	0.0029	U	10061-02-6	trans-1,3-Dichloropropene	0.0029	U
75-25-2	Bromoform	0.0029	U	79-01-6	Trichloroethene	0.0029	U
74-83-9	Bromomethane	0.0029	U	75-69-4	Trichlorofluoromethane	0.0029	U
75-15-0	Carbon Disulfide	0.0029	U	75-01-4	Vinyl Chloride	0.0029	U
1330-20-7	Xylenes (Total)	0.0014	U				

Worksheet #: 283598

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-002
Client Id: 915239-TP-04-AOC01
Data File: 6M03756.D
Analysis Date: 11/05/13 18:30
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 4.97g
Final Vol: NA
Dilution: 1.01
Solids: 70
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	6975-98-0	Decane, 2-methyl-	6.90	0.037 J
2	16747-26-5	Hexane, 2,2,4-trimethyl-	7.05	0.062 J
3	17301-32-5	Undecane, 4,7-dimethyl-	7.20	0.12 J
4	3522-94-9	Hexane, 2,2,5-trimethyl-	7.34	0.13 J
5		unknown	7.52	0.041 J
6		unknown	7.88	0.049 J
7	17301-23-4	Undecane, 2,6-dimethyl-	8.22	0.10 J
8	13151-82-1	DODECANE, 2-CYCLOHEXYL-	8.51	0.063 J
9	75-83-2	Butane, 2,2-dimethyl-	8.57	0.067 J
10		unknown	8.83	0.047 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.72

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-003
Client Id: 915239-TP-06-AOC02-A
Data File: 6M03757.D
Analysis Date: 11/05/13 18:46
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0023	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 283598

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-003
Client Id: 915239-TP-06-AOC02-
Data File: 6M03757.D
Analysis Date: 11/05/13 18:46
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 5.02g
Final Vol: NA
Dilution: 0.996
Solids: 87
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		unknown	8.22	0.034 J
2		unknown	8.52	0.034 J
3	10042-59-8	1-Heptanol, 2-propyl-	8.57	0.056 J
4		unknown	8.65	0.031 J
5		unknown	8.72	0.032 J
6		unknown	8.83	0.032 J
7		unknown	8.89	0.037 J
8		unknown	9.27	0.030 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.29

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-003
Client Id: 915239-TP-06-AOC02-A
Data File: 6M03783.D
Analysis Date: 11/06/13 10:52
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.22g
Final Vol: NA
Dilution: 0.958
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0022	U	56-23-5	Carbon Tetrachloride	0.0022	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0022	U	108-90-7	Chlorobenzene	0.0022	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0022	U	75-00-3	Chloroethane	0.0022	U
79-00-5	1,1,2-Trichloroethane	0.0022	U	67-66-3	Chloroform	0.0022	U
75-34-3	1,1-Dichloroethane	0.0022	U	74-87-3	Chloromethane	0.0022	U
75-35-4	1,1-Dichloroethene	0.0022	U	156-59-2	cis-1,2-Dichloroethene	0.0022	U
87-61-6	1,2,3-Trichlorobenzene	0.0022	U	10061-01-5	cis-1,3-Dichloropropene	0.0022	U
120-82-1	1,2,4-Trichlorobenzene	0.0022	U	110-82-7	Cyclohexane	0.0022	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0022	U	124-48-1	Dibromochloromethane	0.0022	U
106-93-4	1,2-Dibromoethane	0.0022	U	75-71-8	Dichlorodifluoromethane	0.0022	U
95-50-1	1,2-Dichlorobenzene	0.0022	U	100-41-4	Ethylbenzene	0.0011	U
107-06-2	1,2-Dichloroethane	0.0011	U	98-82-8	Isopropylbenzene	0.0011	U
78-87-5	1,2-Dichloropropane	0.0022	U	136777612	m&p-Xylenes	0.0011	U
541-73-1	1,3-Dichlorobenzene	0.0022	U	79-20-9	Methyl Acetate	0.0022	U
106-46-7	1,4-Dichlorobenzene	0.0022	U	108-87-2	Methylcyclohexane	0.0022	U
123-91-1	1,4-Dioxane	0.11	U	75-09-2	Methylene Chloride	0.0022	U
78-93-3	2-Butanone	0.0022	U	1634-04-4	Methyl-t-butyl ether	0.0011	U
591-78-6	2-Hexanone	0.0022	U	95-47-6	o-Xylene	0.0011	U
108-10-1	4-Methyl-2-Pentanone	0.0022	U	100-42-5	Styrene	0.0022	U
67-64-1	Acetone	0.011	U	127-18-4	Tetrachloroethene	0.0022	U
71-43-2	Benzene	0.0011	U	108-88-3	Toluene	0.0011	U
74-97-5	Bromochloromethane	0.0022	U	156-60-5	trans-1,2-Dichloroethene	0.0022	U
75-27-4	Bromodichloromethane	0.0022	U	10061-02-6	trans-1,3-Dichloropropene	0.0022	U
75-25-2	Bromoform	0.0022	U	79-01-6	Trichloroethene	0.0022	U
74-83-9	Bromomethane	0.0022	U	75-69-4	Trichlorofluoromethane	0.0022	U
75-15-0	Carbon Disulfide	0.0022	U	75-01-4	Vinyl Chloride	0.0022	U
1330-20-7	Xylenes (Total)	0.0011	U				

Worksheet #: 283598

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-003
Client Id: 915239-TP-06-AOC02-
Data File: 6M03783.D
Analysis Date: 11/06/13 10:52
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 5.22g
Final Vol: NA
Dilution: 0.958
Solids: 87
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		unknown	8.14	0.019 J
2		unknown	8.51	0.016 J
3		unknown	8.57	0.019 J
4		unknown	8.72	0.024 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.078

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-004(80uL)
Client Id: 915239-TP-06-AOC02-B
Data File: 1M09076.D
Analysis Date: 11/04/13 14:13
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 1g:10ml
Final Vol: NA
Dilution: 5000
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	5.0	U	56-23-5	Carbon Tetrachloride	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	5.0	U	75-00-3	Chloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U	67-66-3	Chloroform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	74-87-3	Chloromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	156-59-2	cis-1,2-Dichloroethene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U	110-82-7	Cyclohexane	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	5.0	U	124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U	75-71-8	Dichlorodifluoromethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U	**100-41-4**	**Ethylbenzene**	**5.0**	**9.5**
107-06-2	1,2-Dichloroethane	2.5	U	98-82-8	Isopropylbenzene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U	**136777612**	**m&p-Xylenes**	**5.0**	**36**
541-73-1	1,3-Dichlorobenzene	5.0	U	79-20-9	Methyl Acetate	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U	**108-87-2**	**Methylcyclohexane**	**5.0**	**430**
123-91-1	1,4-Dioxane	250	U	75-09-2	Methylene Chloride	5.0	U
78-93-3	2-Butanone	5.0	U	1634-04-4	Methyl-t-butyl ether	2.5	U
591-78-6	2-Hexanone	5.0	U	**95-47-6**	**o-Xylene**	**5.0**	**15**
108-10-1	4-Methyl-2-Pentanone	5.0	U	100-42-5	Styrene	5.0	U
67-64-1	Acetone	50	U	127-18-4	Tetrachloroethene	5.0	U
71-43-2	Benzene	2.5	U	**108-88-3**	**Toluene**	**5.0**	**190**
74-97-5	Bromochloromethane	5.0	U	156-60-5	trans-1,2-Dichloroethene	5.0	U
75-27-4	Bromodichloromethane	5.0	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U	79-01-6	Trichloroethene	5.0	U
74-83-9	Bromomethane	5.0	U	75-69-4	Trichlorofluoromethane	5.0	U
75-15-0	Carbon Disulfide	5.0	U	75-01-4	Vinyl Chloride	5.0	U
1330-20-7	**Xylenes (Total)**	**5.0**	**51**				

Worksheet #: 283598

Total Target Concentration 680

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-004(80uL)
Client Id: 915239-TP-06-AOC02-
Data File: 1M09076.D
Analysis Date: 11/04/13 14:13
Date Rec/Extracted: 10/29/13-NA

Matrix: Methanol
Extraction Ratio: 1g:10ml
Final Vol: NA
Dilution: 5000
Solids: 100
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	124-18-5	Decane	7.13	240 J
2	95-63-6	Benzene, 1,2,4-trimethyl-	7.38	96 J
3	1074-43-7	Benzene, 1-methyl-3-propyl-	7.77	76 J
4	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	7.81	97 J
5	527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	8.00	75 J
6	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	8.05	68 J
7		unknown	8.14	64 J
8	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	8.61	93 J
9	91-20-3	Naphthalene	9.06	63 J
10	91-57-6	Naphthalene, 2-methyl-	9.79	94 J

Worksheet #: 283598

Total Tentatively Identified Concentration 970

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-005
Client Id: 915239-TP-06-AOC02-C
Data File: 6M03747.D
Analysis Date: 11/05/13 16:05
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.96g
Final Vol: NA
Dilution: 1.01
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0029	U	56-23-5	Carbon Tetrachloride	0.0029	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0029	U	108-90-7	Chlorobenzene	0.0029	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0029	U	75-00-3	Chloroethane	0.0029	U
79-00-5	1,1,2-Trichloroethane	0.0029	U	67-66-3	Chloroform	0.0029	U
75-34-3	1,1-Dichloroethane	0.0029	U	74-87-3	Chloromethane	0.0029	U
75-35-4	1,1-Dichloroethene	0.0029	U	156-59-2	cis-1,2-Dichloroethene	0.0029	U
87-61-6	1,2,3-Trichlorobenzene	0.0029	U	10061-01-5	cis-1,3-Dichloropropene	0.0029	U
120-82-1	1,2,4-Trichlorobenzene	0.0029	U	110-82-7	Cyclohexane	0.0029	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0029	U	124-48-1	Dibromochloromethane	0.0029	U
106-93-4	1,2-Dibromoethane	0.0029	U	75-71-8	Dichlorodifluoromethane	0.0029	U
95-50-1	1,2-Dichlorobenzene	0.0029	U	100-41-4	Ethylbenzene	0.0014	U
107-06-2	1,2-Dichloroethane	0.0014	U	98-82-8	Isopropylbenzene	0.0014	U
78-87-5	1,2-Dichloropropane	0.0029	U	136777612	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0029	U	79-20-9	Methyl Acetate	0.0029	U
106-46-7	1,4-Dichlorobenzene	0.0029	U	108-87-2	Methylcyclohexane	0.0029	U
123-91-1	1,4-Dioxane	0.14	U	75-09-2	Methylene Chloride	0.0029	U
78-93-3	2-Butanone	0.0029	U	1634-04-4	Methyl-t-butyl ether	0.0014	U
591-78-6	2-Hexanone	0.0029	U	95-47-6	o-Xylene	0.0014	U
108-10-1	4-Methyl-2-Pentanone	0.0029	U	100-42-5	Styrene	0.0029	U
67-64-1	**Acetone**	**0.014**	**0.69**	127-18-4	Tetrachloroethene	0.0029	U
71-43-2	Benzene	0.0014	U	108-88-3	Toluene	0.0014	U
74-97-5	Bromochloromethane	0.0029	U	156-60-5	trans-1,2-Dichloroethene	0.0029	U
75-27-4	Bromodichloromethane	0.0029	U	10061-02-6	trans-1,3-Dichloropropene	0.0029	U
75-25-2	Bromoform	0.0029	U	79-01-6	Trichloroethene	0.0029	U
74-83-9	Bromomethane	0.0029	U	75-69-4	Trichlorofluoromethane	0.0029	U
75-15-0	**Carbon Disulfide**	**0.0029**	**0.0035**	75-01-4	Vinyl Chloride	0.0029	U
1330-20-7	Xylenes (Total)	0.0014	U				

Worksheet #: 283598

Total Target Concentration 0.69

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-005
Client Id: 915239-TP-06-AOC02-
Data File: 6M03747.D
Analysis Date: 11/05/13 16:05
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 4.96g
Final Vol: NA
Dilution: 1.01
Solids: 70
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	6783-92-2	1,1,2,3-TETRAMETHYLCYCLOHEXAN	6.77	0.075 J
2		unknown	7.05	0.068 J
3	756-02-5	1,4-Pentadiene, 2,3,3-trimethyl-	7.52	0.082 J
4	2958-76-1	Naphthalene, decahydro-2-methyl-	7.88	0.082 J
5	15932-80-6	Cyclohexanone, 5-methyl-2-(1-methylet	8.00	0.096 J
6		unknown	8.22	0.083 J
7		unknown	8.31	0.083 J
8		unknown	8.66	0.076 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.64

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-006(MS:AC75
Client Id: 915239-TP-06-AOC02-C-M
Data File: 6M03749.D
Analysis Date: 11/05/13 16:37
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.09g
Final Vol: NA
Dilution: 0.982
Solids: 66

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0030	0.015	56-23-5	Carbon Tetrachloride	0.0030	0.016
79-34-5	1,1,2,2-Tetrachloroethane	0.0030	0.026	108-90-7	Chlorobenzene	0.0030	0.0061
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0030	0.031	75-00-3	Chloroethane	0.0030	0.046
79-00-5	1,1,2-Trichloroethane	0.0030	0.019	67-66-3	Chloroform	0.0030	0.021
75-34-3	1,1-Dichloroethane	0.0030	0.028	74-87-3	Chloromethane	0.0030	0.064
75-35-4	1,1-Dichloroethene	0.0030	0.036	156-59-2	cis-1,2-Dichloroethene	0.0030	0.023
87-61-6	1,2,3-Trichlorobenzene	0.0030	0.017	10061-01-5	cis-1,3-Dichloropropene	0.0030	0.016
120-82-1	1,2,4-Trichlorobenzene	0.0030	0.0083	110-82-7	Cyclohexane	0.0030	0.012
96-12-8	1,2-Dibromo-3-Chloroprop	0.0030	0.012	124-48-1	Dibromochloromethane	0.0030	0.012
106-93-4	1,2-Dibromoethane	0.0030	0.014	75-71-8	Dichlorodifluoromethane	0.0030	0.061
95-50-1	1,2-Dichlorobenzene	0.0030	0.0058	100-41-4	Ethylbenzene	0.0015	0.0067
107-06-2	1,2-Dichloroethane	0.0015	0.028	98-82-8	Isopropylbenzene	0.0015	0.0058
78-87-5	1,2-Dichloropropane	0.0030	0.014	136777612	m&p-Xylenes	0.0015	0.014
541-73-1	1,3-Dichlorobenzene	0.0030	0.0060	79-20-9	Methyl Acetate	0.0030	0.16
106-46-7	1,4-Dichlorobenzene	0.0030	0.0062	108-87-2	Methylcyclohexane	0.0030	0.0094
123-91-1	1,4-Dioxane	0.15	4.3	75-09-2	Methylene Chloride	0.0030	0.042
78-93-3	2-Butanone	0.0030	0.15	1634-04-4	Methyl-t-butyl ether	0.0015	0.045
591-78-6	2-Hexanone	0.0030	0.039	95-47-6	o-Xylene	0.0015	0.0069
108-10-1	4-Methyl-2-Pentanone	0.0030	0.065	100-42-5	Styrene	0.0030	0.0049
67-64-1	Acetone	0.015	1.2	127-18-4	Tetrachloroethene	0.0030	0.0072
71-43-2	Benzene	0.0015	0.017	108-88-3	Toluene	0.0015	0.012
74-97-5	Bromochloromethane	0.0030	0.026	156-60-5	trans-1,2-Dichloroethene	0.0030	0.026
75-27-4	Bromodichloromethane	0.0030	0.014	10061-02-6	trans-1,3-Dichloropropene	0.0030	0.016
75-25-2	Bromoform	0.0030	0.017	79-01-6	Trichloroethene	0.0030	0.010
74-83-9	Bromomethane	0.0030	0.045	75-69-4	Trichlorofluoromethane	0.0030	0.036
75-15-0	Carbon Disulfide	0.0030	0.029	75-01-4	Vinyl Chloride	0.0030	0.055
1330-20-7	Xylenes (Total)	0.0015	0.0209				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-007(MSD:AC
Client Id: 915239-TP-06-AOC02-C-M
Data File: 6M03750.D
Analysis Date: 11/05/13 16:53
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 4.98g
Final Vol: NA
Dilution: 1.00
Solids: 67

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0030	0.020	56-23-5	Carbon Tetrachloride	0.0030	0.022
79-34-5	1,1,2,2-Tetrachloroethane	0.0030	0.025	108-90-7	Chlorobenzene	0.0030	0.0067
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0030	0.029	75-00-3	Chloroethane	0.0030	0.047
79-00-5	1,1,2-Trichloroethane	0.0030	0.026	67-66-3	Chloroform	0.0030	0.023
75-34-3	1,1-Dichloroethane	0.0030	0.034	74-87-3	Chloromethane	0.0030	0.062
75-35-4	1,1-Dichloroethene	0.0030	0.036	156-59-2	cis-1,2-Dichloroethene	0.0030	0.026
87-61-6	1,2,3-Trichlorobenzene	0.0030	0.013	10061-01-5	cis-1,3-Dichloropropene	0.0030	0.020
120-82-1	1,2,4-Trichlorobenzene	0.0030	0.0053	110-82-7	Cyclohexane	0.0030	0.014
96-12-8	1,2-Dibromo-3-Chloropropa	0.0030	U	124-48-1	Dibromochloromethane	0.0030	0.015
106-93-4	1,2-Dibromoethane	0.0030	0.017	75-71-8	Dichlorodifluoromethane	0.0030	0.055
95-50-1	1,2-Dichlorobenzene	0.0030	0.0044	100-41-4	Ethylbenzene	0.0015	0.014
107-06-2	1,2-Dichloroethane	0.0015	0.029	98-82-8	Isopropylbenzene	0.0015	0.0058
78-87-5	1,2-Dichloropropane	0.0030	0.019	136777612	m&p-Xylenes	0.0015	0.018
541-73-1	1,3-Dichlorobenzene	0.0030	0.0045	79-20-9	Methyl Acetate	0.0030	0.12
106-46-7	1,4-Dichlorobenzene	0.0030	0.0057	108-87-2	Methylcyclohexane	0.0030	0.010
123-91-1	1,4-Dioxane	0.15	4.2	75-09-2	Methylene Chloride	0.0030	0.046
78-93-3	2-Butanone	0.0030	0.17	1634-04-4	Methyl-t-butyl ether	0.0015	0.044
591-78-6	2-Hexanone	0.0030	0.023	95-47-6	o-Xylene	0.0015	0.010
108-10-1	4-Methyl-2-Pentanone	0.0030	0.056	100-42-5	Styrene	0.0030	0.0066
67-64-1	Acetone	0.015	1.2	127-18-4	Tetrachloroethene	0.0030	0.010
71-43-2	Benzene	0.0015	0.018	108-88-3	Toluene	0.0015	0.014
74-97-5	Bromochloromethane	0.0030	0.031	156-60-5	trans-1,2-Dichloroethene	0.0030	0.025
75-27-4	Bromodichloromethane	0.0030	0.015	10061-02-6	trans-1,3-Dichloropropene	0.0030	0.017
75-25-2	Bromoform	0.0030	0.022	79-01-6	Trichloroethene	0.0030	0.016
74-83-9	Bromomethane	0.0030	0.048	75-69-4	Trichlorofluoromethane	0.0030	0.029
75-15-0	Carbon Disulfide	0.0030	0.031	75-01-4	Vinyl Chloride	0.0030	0.057
1330-20-7	Xylenes (Total)	0.0015	0.028				

Worksheet #: 283598

Total Target Concentration 6.8

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-008(80uL)
Client Id: 915239-TP-06-AOC02-D
Data File: 1M09077.D
Analysis Date: 11/04/13 14:56
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 1.02g:10ml
Final Vol: NA
Dilution: 4900
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	4.9	U	56-23-5	Carbon Tetrachloride	4.9	U
79-34-5	1,1,2,2-Tetrachloroethane	4.9	U	108-90-7	Chlorobenzene	4.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	4.9	U	75-00-3	Chloroethane	4.9	U
79-00-5	1,1,2-Trichloroethane	4.9	U	67-66-3	Chloroform	4.9	U
75-34-3	1,1-Dichloroethane	4.9	U	74-87-3	Chloromethane	4.9	U
75-35-4	1,1-Dichloroethene	4.9	U	156-59-2	cis-1,2-Dichloroethene	4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	U	10061-01-5	cis-1,3-Dichloropropene	4.9	U
120-82-1	1,2,4-Trichlorobenzene	4.9	U	**110-82-7**	**Cyclohexane**	**4.9**	**13**
96-12-8	1,2-Dibromo-3-Chloropropa	4.9	U	124-48-1	Dibromochloromethane	4.9	U
106-93-4	1,2-Dibromoethane	4.9	U	75-71-8	Dichlorodifluoromethane	4.9	U
95-50-1	1,2-Dichlorobenzene	4.9	U	**100-41-4**	**Ethylbenzene**	**4.9**	**8.0**
107-06-2	1,2-Dichloroethane	2.5	U	98-82-8	Isopropylbenzene	4.9	U
78-87-5	1,2-Dichloropropane	4.9	U	**136777612**	**m&p-Xylenes**	**4.9**	**32**
541-73-1	1,3-Dichlorobenzene	4.9	U	79-20-9	Methyl Acetate	4.9	U
106-46-7	1,4-Dichlorobenzene	4.9	U	**108-87-2**	**Methylcyclohexane**	**4.9**	**380**
123-91-1	1,4-Dioxane	250	U	75-09-2	Methylene Chloride	4.9	U
78-93-3	2-Butanone	4.9	U	1634-04-4	Methyl-t-butyl ether	2.5	U
591-78-6	2-Hexanone	4.9	U	**95-47-6**	**o-Xylene**	**4.9**	**12**
108-10-1	4-Methyl-2-Pentanone	4.9	U	100-42-5	Styrene	4.9	U
67-64-1	Acetone	49	U	127-18-4	Tetrachloroethene	4.9	U
71-43-2	Benzene	2.5	U	**108-88-3**	**Toluene**	**4.9**	**210**
74-97-5	Bromochloromethane	4.9	U	156-60-5	trans-1,2-Dichloroethene	4.9	U
75-27-4	Bromodichloromethane	4.9	U	10061-02-6	trans-1,3-Dichloropropene	4.9	U
75-25-2	Bromoform	4.9	U	79-01-6	Trichloroethene	4.9	U
74-83-9	Bromomethane	4.9	U	75-69-4	Trichlorofluoromethane	4.9	U
75-15-0	Carbon Disulfide	4.9	U	75-01-4	Vinyl Chloride	4.9	U
1330-20-7	**Xylenes (Total)**	**4.9**	**44**				

Worksheet #: 283598 ***Total Target Concentration*** 660 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-008(80uL)
Client Id: 915239-TP-06-AOC02-
Data File: 1M09077.D
Analysis Date: 11/04/13 14:56
Date Rec/Extracted: 10/29/13-NA

Matrix: Methanol
Extraction Ratio: 1.02g:10ml
Final Vol: NA
Dilution: 4900
Solids: 100
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	124-18-5	Decane	7.13	300 J
2	95-63-6	Benzene, 1,2,4-trimethyl-	7.38	120 J
3		unknown	7.53	140 J
4	1074-43-7	Benzene, 1-methyl-3-propyl-	7.77	93 J
5	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	7.80	150 J
6	527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	8.00	100 J
7	934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	8.61	100 J
8	91-20-3	Naphthalene	9.06	89 J
9	91-57-6	Naphthalene, 2-methyl-	9.79	180 J
10	90-12-0	Naphthalene, 1-methyl-	9.92	89 J

Worksheet #: 283598

Total Tentatively Identified Concentration 1400

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-009
Client Id: 915239-TP-DUPLICATE-01
Data File: 6M03758.D
Analysis Date: 11/05/13 19:03
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.07g
Final Vol: NA
Dilution: 0.986
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.0023	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0012	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0023	U	136777612	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 283598

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-009
Client Id: 915239-TP-DUPLICAT
Data File: 6M03758.D
Analysis Date: 11/05/13 19:03
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 5.07g
Final Vol: NA
Dilution: 0.986
Solids: 85
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	102-67-0	Aluminum, tripropyl-	8.13	0.22 J
2		unknown	8.22	0.62 J
3		unknown	8.51	0.27 J
4		unknown	8.57	0.30 J
5	62108-21-8	Decane, 6-ethyl-2-methyl-	8.72	0.37 J

Worksheet #: 283598

Total Tentatively Identified Concentration 1.8

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-009
Client Id: 915239-TP-DUPLICATE-01
Data File: 6M03782.D
Analysis Date: 11/06/13 10:36
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Soil
Initial Vol: 5.93g
Final Vol: NA
Dilution: 0.843
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0020	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.00099	U
107-06-2	1,2-Dichloroethane	0.00099	U	98-82-8	Isopropylbenzene	0.00099	U
78-87-5	1,2-Dichloropropane	0.0020	U	136777612	m&p-Xylenes	0.00099	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.099	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.00099	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.00099	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.0099	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.00099	U	108-88-3	Toluene	0.00099	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.00099	U				

Worksheet #: 283598

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-009
Client Id: 915239-TP-DUPLICAT
Data File: 6M03782.D
Analysis Date: 11/06/13 10:36
Date Rec/Extracted: 10/29/13-NA

Matrix: Soil
Initial Vol: 5.93g
Final Vol: NA
Dilution: 0.843
Solids: 85
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		unknown	8.14	0.027 J
2		unknown	8.22	0.048 J
3		unknown	8.52	0.034 J
4		unknown	8.57	0.028 J
5		unknown	8.72	0.028 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.16

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-010(400uL)
Client Id: 915239-TP-08-AOC02
Data File: 1M09079.D
Analysis Date: 11/04/13 15:32
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5.05g:10ml
Final Vol: NA
Dilution: 198
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.27	U	56-23-5	Carbon Tetrachloride	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	108-90-7	Chlorobenzene	0.27	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.27	U	75-00-3	Chloroethane	0.27	U
79-00-5	**1,1,2-Trichloroethane**	**0.27**	**0.33**	67-66-3	Chloroform	0.27	U
75-34-3	1,1-Dichloroethane	0.27	U	74-87-3	Chloromethane	0.27	U
75-35-4	1,1-Dichloroethene	0.27	U	**156-59-2**	**cis-1,2-Dichloroethene**	**0.27**	**3.3**
87-61-6	1,2,3-Trichlorobenzene	0.27	U	10061-01-5	cis-1,3-Dichloropropene	0.27	U
120-82-1	1,2,4-Trichlorobenzene	0.27	U	110-82-7	Cyclohexane	0.27	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.27	U	124-48-1	Dibromochloromethane	0.27	U
106-93-4	1,2-Dibromoethane	0.27	U	75-71-8	Dichlorodifluoromethane	0.27	U
95-50-1	1,2-Dichlorobenzene	0.27	U	100-41-4	Ethylbenzene	0.27	U
107-06-2	1,2-Dichloroethane	0.14	U	98-82-8	Isopropylbenzene	0.27	U
78-87-5	1,2-Dichloropropane	0.27	U	**136777612**	**m&p-Xylenes**	**0.27**	**0.31**
541-73-1	1,3-Dichlorobenzene	0.27	U	79-20-9	Methyl Acetate	0.27	U
106-46-7	1,4-Dichlorobenzene	0.27	U	108-87-2	Methylcyclohexane	0.27	U
123-91-1	1,4-Dioxane	14	U	75-09-2	Methylene Chloride	0.27	U
78-93-3	2-Butanone	0.27	U	1634-04-4	Methyl-t-butyl ether	0.14	U
591-78-6	2-Hexanone	0.27	U	**95-47-6**	**o-Xylene**	**0.27**	**0.31**
108-10-1	4-Methyl-2-Pentanone	0.27	U	100-42-5	Styrene	0.27	U
67-64-1	Acetone	2.7	U	**127-18-4**	**Tetrachloroethene**	**0.27**	**22**
71-43-2	Benzene	0.14	U	**108-88-3**	**Toluene**	**0.27**	**0.33**
74-97-5	Bromochloromethane	0.27	U	156-60-5	trans-1,2-Dichloroethene	0.27	U
75-27-4	Bromodichloromethane	0.27	U	10061-02-6	trans-1,3-Dichloropropene	0.27	U
75-25-2	Bromoform	0.27	U	**79-01-6**	**Trichloroethene**	**0.27**	**120**
74-83-9	Bromomethane	0.27	U	75-69-4	Trichlorofluoromethane	0.27	U
75-15-0	Carbon Disulfide	0.27	U	75-01-4	Vinyl Chloride	0.27	U
1330-20-7	**Xylenes (Total)**	**0.27**	**0.62**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-010(400uL)
Client Id: 915239-TP-08-AOC02
Data File: 1M09079.D
Analysis Date: 11/04/13 15:32
Date Rec/Extracted: 10/29/13-NA

Matrix: Methanol
Extraction Ratio: 5.05g:10ml
Final Vol: NA
Dilution: 198
Solids: 73
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	21078-65-9	1-Decanol, 2-ethyl-	7.13	0.96 J

Worksheet #: 283598

Total Tentatively Identified Concentration 0.96

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-001(10X)
Client Id: 915239-TP-01-AOC01
Data File: 7M60919.D
Analysis Date: 11/08/13 00:44
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 1ml
Dilution: 10
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.95	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.95**	**2.9**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.95	U	191-24-2	Benzo[g,h,i]perylene	0.95	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.95	U	207-08-9	Benzo[k]fluoranthene	0.95	U
95-95-4	2,4,5-Trichlorophenol	0.95	U	111-91-1	bis(2-Chloroethoxy)methan	0.95	U
88-06-2	2,4,6-Trichlorophenol	0.95	U	111-44-4	bis(2-Chloroethyl)ether	0.24	U
120-83-2	2,4-Dichlorophenol	0.24	U	108-60-1	bis(2-chloroisopropyl)ether	0.95	U
105-67-9	**2,4-Dimethylphenol**	**0.24**	**0.39**	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.95**	**4.9**
51-28-5	2,4-Dinitrophenol	4.8	U	85-68-7	Butylbenzylphthalate	0.95	U
121-14-2	2,4-Dinitrotoluene	0.95	U	105-60-2	Caprolactam	0.95	U
606-20-2	2,6-Dinitrotoluene	0.95	U	**86-74-8**	**Carbazole**	**0.95**	**1.2**
91-58-7	2-Chloronaphthalene	0.95	U	**218-01-9**	**Chrysene**	**0.95**	**3.6**
95-57-8	2-Chlorophenol	0.95	U	53-70-3	Dibenzo[a,h]anthracene	0.95	U
91-57-6	**2-Methylnaphthalene**	**0.95**	**3.0**	**132-64-9**	**Dibenzofuran**	**0.24**	**5.1**
95-48-7	2-Methylphenol	0.24	U	84-66-2	Diethylphthalate	0.95	U
88-74-4	2-Nitroaniline	0.95	U	131-11-3	Dimethylphthalate	0.95	U
88-75-5	2-Nitrophenol	0.95	U	84-74-2	Di-n-butylphthalate	0.48	U
106-44-5	**3&4-Methylphenol**	**0.24**	**0.74**	117-84-0	Di-n-octylphthalate	0.95	U
91-94-1	3,3'-Dichlorobenzidine	0.95	U	**206-44-0**	**Fluoranthene**	**0.95**	**9.3**
99-09-2	3-Nitroaniline	0.95	U	**86-73-7**	**Fluorene**	**0.95**	**8.7**
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	118-74-1	Hexachlorobenzene	0.95	U
101-55-3	4-Bromophenyl-phenylether	0.95	U	87-68-3	Hexachlorobutadiene	0.95	U
59-50-7	4-Chloro-3-methylphenol	0.95	U	77-47-4	Hexachlorocyclopentadiene	0.95	U
106-47-8	4-Chloroaniline	0.45	U	67-72-1	Hexachloroethane	0.95	U
7005-72-3	4-Chlorophenyl-phenylether	0.95	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.95	U
100-01-6	4-Nitroaniline	0.95	U	78-59-1	Isophorone	0.95	U
100-02-7	4-Nitrophenol	0.95	U	**91-20-3**	**Naphthalene**	**0.24**	**2.5**
83-32-9	**Acenaphthene**	**0.95**	**6.7**	98-95-3	Nitrobenzene	0.95	U
208-96-8	Acenaphthylene	0.95	U	621-64-7	N-Nitroso-di-n-propylamine	0.24	U
98-86-2	Acetophenone	0.95	U	86-30-6	n-Nitrosodiphenylamine	0.95	U
120-12-7	Anthracene	0.95	U	87-86-5	Pentachlorophenol	4.8	U
1912-24-9	Atrazine	0.95	U	**85-01-8**	**Phenanthrene**	**0.95**	**30**
100-52-7	Benzaldehyde	0.95	U	108-95-2	Phenol	0.95	U
56-55-3	**Benzo[a]anthracene**	**0.95**	**3.3**	**129-00-0**	**Pyrene**	**0.95**	**14**
50-32-8	**Benzo[a]pyrene**	**0.95**	**1.2**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-001(10X)
Client Id: 915239-TP-01-AOC01
Data File: 7M60919.D
Analysis Date: 11/08/13 00:44
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 1ml
Dilution: 10
Solids: 70
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.35	33 JAB
2	629-59-4	Tetradecane	7.31	27 J
3	17312-82-2	Undecane, 4,6-dimethyl-	7.60	31 J
4	2245-38-7	Naphthalene, 1,6,7-trimethyl-	8.08	31 J
5	544-76-3	Hexadecane	8.25	35 J
6	55045-11-9	Tridecane, 5-propyl-	8.48	150 J
7	529-05-5	Azulene, 7-ethyl-1,4-dimethyl-	8.67	43 J
8	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.76	290 J
9	17312-57-1	Dodecane, 3-methyl-	8.98	42 J
10	593-45-3	Octadecane	9.20	46 J
11	629-59-4	Tetradecane	9.64	110 J
12	74685-29-3	9-Eicosene, (E)-	9.86	34 J
13	33284-52-5	1,1'-Biphenyl, 3,3',5,5'-tetrachloro-	9.96	51 J
14	112-95-8	Eicosane	10.14	46 J
15		unknown	10.34	43 J
16	544-76-3	Hexadecane	10.47	51 J
17	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	10.71	48 J
18	629-97-0	Docosane	11.16	30 J
19	638-67-5	Tricosane	11.58	28 J
20	53584-60-4	28-NOR-17ALPHA(H)-HOPANE	14.45	37 J

Worksheet #: 283677

Total Tentatively Identified Concentration 1200

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-002
Client Id: 915239-TP-04-AOC01
Data File: 7M60913.D
Analysis Date: 11/07/13 22:27
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**0.048**	**0.093**	**205-99-2**	**Benzo[b]fluoranthene**	**0.048**	**0.30**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.048	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.048**	**0.13**
58-90-2	2,3,4,6-Tetrachlorophenol	0.048	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.048**	**0.081**
95-95-4	2,4,5-Trichlorophenol	0.048	U	111-91-1	bis(2-Chloroethoxy)methan	0.048	U
88-06-2	2,4,6-Trichlorophenol	0.048	U	111-44-4	bis(2-Chloroethyl)ether	0.012	U
120-83-2	2,4-Dichlorophenol	0.012	U	108-60-1	bis(2-chloroisopropyl)ether	0.048	U
105-67-9	**2,4-Dimethylphenol**	**0.012**	**0.039**	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.048**	**0.40**
51-28-5	2,4-Dinitrophenol	0.24	U	85-68-7	Butylbenzylphthalate	0.048	U
121-14-2	2,4-Dinitrotoluene	0.048	U	105-60-2	Caprolactam	0.048	U
606-20-2	2,6-Dinitrotoluene	0.048	U	86-74-8	Carbazole	0.048	U
91-58-7	2-Chloronaphthalene	0.048	U	**218-01-9**	**Chrysene**	**0.048**	**0.20**
95-57-8	2-Chlorophenol	0.048	U	53-70-3	Dibenzo[a,h]anthracene	0.048	U
91-57-6	**2-Methylnaphthalene**	**0.048**	**0.44**	**132-64-9**	**Dibenzofuran**	**0.012**	**0.094**
95-48-7	**2-Methylphenol**	**0.012**	**0.028**	84-66-2	Diethylphthalate	0.048	U
88-74-4	2-Nitroaniline	0.048	U	131-11-3	Dimethylphthalate	0.048	U
88-75-5	2-Nitrophenol	0.048	U	84-74-2	Di-n-butylphthalate	0.024	U
106-44-5	**3&4-Methylphenol**	**0.012**	**0.069**	117-84-0	Di-n-octylphthalate	0.048	U
91-94-1	3,3'-Dichlorobenzidine	0.048	U	**206-44-0**	**Fluoranthene**	**0.048**	**0.21**
99-09-2	3-Nitroaniline	0.048	U	**86-73-7**	**Fluorene**	**0.048**	**0.056**
534-52-1	4,6-Dinitro-2-methylphenol	0.24	U	118-74-1	Hexachlorobenzene	0.048	U
101-55-3	4-Bromophenyl-phenylether	0.048	U	87-68-3	Hexachlorobutadiene	0.048	U
59-50-7	4-Chloro-3-methylphenol	0.048	U	77-47-4	Hexachlorocyclopentadiene	0.048	U
106-47-8	4-Chloroaniline	0.023	U	67-72-1	Hexachloroethane	0.048	U
7005-72-3	4-Chlorophenyl-phenylether	0.048	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.048**	**0.11**
100-01-6	4-Nitroaniline	0.048	U	78-59-1	Isophorone	0.048	U
100-02-7	4-Nitrophenol	0.048	U	**91-20-3**	**Naphthalene**	**0.012**	**0.29**
83-32-9	**Acenaphthene**	**0.048**	**0.094**	98-95-3	Nitrobenzene	0.048	U
208-96-8	Acenaphthylene	0.048	U	621-64-7	N-Nitroso-di-n-propylamine	0.012	U
98-86-2	Acetophenone	0.048	U	86-30-6	n-Nitrosodiphenylamine	0.048	U
120-12-7	Anthracene	0.048	U	87-86-5	Pentachlorophenol	0.24	U
1912-24-9	Atrazine	0.048	U	**85-01-8**	**Phenanthrene**	**0.048**	**0.31**
100-52-7	Benzaldehyde	0.048	U	108-95-2	Phenol	0.048	U
56-55-3	**Benzo[a]anthracene**	**0.048**	**0.17**	**129-00-0**	**Pyrene**	**0.048**	**0.38**
50-32-8	**Benzo[a]pyrene**	**0.048**	**0.14**				

Worksheet #: 283677

Total Target Concentration 3.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-002
Client Id: 915239-TP-04-AOC01
Data File: 7M60913.D
Analysis Date: 11/07/13 22:27
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 70
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.41	33 JAB
2	1120-21-4	Undecane	7.60	1.4 J
3	544-76-3	Hexadecane	8.24	1.3 J
4	55045-11-9	Tridecane, 5-propyl-	8.46	1.6 J
5	629-78-7	Heptadecane	8.71	1.1 J
6	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.74	1.6 J
7	593-45-3	Octadecane	9.18	2.2 J
8	55702-46-0	1,1'-Biphenyl, 2,3,4-trichloro-	9.63	2.3 J
9	822-28-6	Hexadecane, 1-(ethenyloxy)-	9.84	0.93 J
10	26914-33-0	1,1'-Biphenyl, tetrachloro-	9.94	1.8 J
11	32598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrachloro-	9.98	1.6 J
12	41464-41-9	1,1'-Biphenyl, 2,2',5,6'-tetrachloro-	10.12	0.92 J
13	32598-10-0	1,1'-Biphenyl, 2,3',4,4'-tetrachloro-	10.52	1.4 J
14	41464-49-7	1,1'-Biphenyl, 2,3,3',5'-tetrachloro-	10.70	1.0 J
15		unknown	11.57	1.2 J
16	629-99-2	Pentacosane	12.43	0.92 J
17	36728-72-0	28-NOR-17BETA(H)-HOPANE	14.01	1.0 J
18		unknown	14.20	1.1 J
19	36728-72-0	28-NOR-17BETA(H)-HOPANE	14.47	2.9 J
20		unknown	14.80	1.6 J

Worksheet #: 283677

Total Tentatively Identified Concentration 61

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-003(20X)
Client Id: 915239-TP-06-AOC02-A
Data File: 7M60917.D
Analysis Date: 11/07/13 23:58
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 25ml
Dilution: 20
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	38	U	205-99-2	Benzo[b]fluoranthene	38	U
95-94-3	1,2,4,5-Tetrachlorobenzene	38	U	191-24-2	Benzo[g,h,i]perylene	38	U
58-90-2	2,3,4,6-Tetrachlorophenol	38	U	207-08-9	Benzo[k]fluoranthene	38	U
95-95-4	2,4,5-Trichlorophenol	38	U	111-91-1	bis(2-Chloroethoxy)methan	38	U
88-06-2	2,4,6-Trichlorophenol	38	U	111-44-4	bis(2-Chloroethyl)ether	9.6	U
120-83-2	2,4-Dichlorophenol	9.6	U	108-60-1	bis(2-chloroisopropyl)ether	38	U
105-67-9	2,4-Dimethylphenol	9.6	U	117-81-7	bis(2-Ethylhexyl)phthalate	38	U
51-28-5	2,4-Dinitrophenol	190	U	85-68-7	Butylbenzylphthalate	38	U
121-14-2	2,4-Dinitrotoluene	38	U	105-60-2	Caprolactam	38	U
606-20-2	2,6-Dinitrotoluene	38	U	86-74-8	Carbazole	38	U
91-58-7	2-Chloronaphthalene	38	U	218-01-9	Chrysene	38	U
95-57-8	2-Chlorophenol	38	U	53-70-3	Dibenzo[a,h]anthracene	38	U
91-57-6	2-Methylnaphthalene	38	U	132-64-9	Dibenzofuran	9.6	U
95-48-7	2-Methylphenol	9.6	U	84-66-2	Diethylphthalate	38	U
88-74-4	2-Nitroaniline	38	U	131-11-3	Dimethylphthalate	38	U
88-75-5	2-Nitrophenol	38	U	84-74-2	Di-n-butylphthalate	19	U
106-44-5	3&4-Methylphenol	9.6	U	117-84-0	Di-n-octylphthalate	38	U
91-94-1	3,3'-Dichlorobenzidine	38	U	206-44-0	Fluoranthene	38	U
99-09-2	3-Nitroaniline	38	U	86-73-7	Fluorene	38	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U	118-74-1	Hexachlorobenzene	38	U
101-55-3	4-Bromophenyl-phenylether	38	U	87-68-3	Hexachlorobutadiene	38	U
59-50-7	4-Chloro-3-methylphenol	38	U	77-47-4	Hexachlorocyclopentadiene	38	U
106-47-8	4-Chloroaniline	18	U	67-72-1	Hexachloroethane	38	U
7005-72-3	4-Chlorophenyl-phenylether	38	U	193-39-5	Indeno[1,2,3-cd]pyrene	38	U
100-01-6	4-Nitroaniline	38	U	78-59-1	Isophorone	38	U
100-02-7	4-Nitrophenol	38	U	91-20-3	Naphthalene	9.6	U
83-32-9	Acenaphthene	38	U	98-95-3	Nitrobenzene	38	U
208-96-8	Acenaphthylene	38	U	621-64-7	N-Nitroso-di-n-propylamine	9.6	U
98-86-2	Acetophenone	38	U	86-30-6	n-Nitrosodiphenylamine	38	U
120-12-7	Anthracene	38	U	87-86-5	Pentachlorophenol	190	U
1912-24-9	Atrazine	38	U	85-01-8	Phenanthrene	38	U
100-52-7	Benzaldehyde	38	U	108-95-2	Phenol	38	U
56-55-3	Benzo[a]anthracene	38	U	**129-00-0**	**Pyrene**	**38**	**50**
50-32-8	Benzo[a]pyrene	38	U				

Worksheet #: 283677

Total Target Concentration 50

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-003(20X)
Client Id: 915239-TP-06-AOC02-
Data File: 7M60917.D
Analysis Date: 11/07/13 23:58
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 25ml
Dilution: 20
Solids: 87
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	8.46	1100 J
2	629-78-7	Heptadecane	8.70	1100 J
3	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.73	1600 J
4	17312-62-8	Decane, 5-propyl-	8.90	640 J
5	593-45-3	Octadecane	9.17	1600 J
6	593-49-7	Heptacosane	9.60	830 J
7	544-76-3	Hexadecane	9.64	1200 J
8		unknown	9.93	640 J
9	112-95-8	Eicosane	10.10	1400 J
10	54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	10.27	910 J
11	112-95-8	Eicosane	10.43	810 J
12	544-76-3	Hexadecane	10.55	910 J
13	638-67-5	Tricosane	10.68	590 J
14	593-45-3	Octadecane	10.72	780 J
15	629-97-0	Docosane	10.99	670 J
16	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.14	1900 J
17	13475-75-7	Pentadecane, 8-hexyl-	11.56	1500 J
18	112-95-8	Eicosane	11.96	630 J
19	7225-64-1	Heptadecane, 9-octyl-	13.08	700 J
20	53584-60-4	28-NOR-17ALPHA(H)-HOPANE	14.44	930 J

Worksheet #: 283677

Total Tentatively Identified Concentration 20000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-004(3X)
Client Id: 915239-TP-06-AOC02-B
Data File: 7M60751.D
Analysis Date: 10/31/13 11:24
Date Rec/Extracted: 10/29/13-10/30/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 3
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	60	U	205-99-2	Benzo[b]fluoranthene	60	U
95-94-3	1,2,4,5-Tetrachlorobenzene	60	U	191-24-2	Benzo[g,h,i]perylene	60	U
58-90-2	2,3,4,6-Tetrachlorophenol	60	U	207-08-9	Benzo[k]fluoranthene	60	U
95-95-4	2,4,5-Trichlorophenol	60	U	111-91-1	bis(2-Chloroethoxy)methan	60	U
88-06-2	2,4,6-Trichlorophenol	60	U	111-44-4	bis(2-Chloroethyl)ether	15	U
120-83-2	2,4-Dichlorophenol	15	U	108-60-1	bis(2-chloroisopropyl)ether	60	U
105-67-9	2,4-Dimethylphenol	15	U	117-81-7	bis(2-Ethylhexyl)phthalate	60	U
51-28-5	2,4-Dinitrophenol	300	U	85-68-7	Butylbenzylphthalate	60	U
121-14-2	2,4-Dinitrotoluene	60	U	105-60-2	Caprolactam	60	U
606-20-2	2,6-Dinitrotoluene	60	U	86-74-8	Carbazole	60	U
91-58-7	2-Chloronaphthalene	60	U	218-01-9	Chrysene	60	U
95-57-8	2-Chlorophenol	60	U	53-70-3	Dibenzo[a,h]anthracene	60	U
91-57-6	**2-Methylnaphthalene**	**60**	**91**	132-64-9	Dibenzofuran	15	U
95-48-7	2-Methylphenol	15	U	84-66-2	Diethylphthalate	60	U
88-74-4	2-Nitroaniline	60	U	131-11-3	Dimethylphthalate	60	U
88-75-5	2-Nitrophenol	60	U	**84-74-2**	**Di-n-butylphthalate**	**30**	**92**
106-44-5	3&4-Methylphenol	15	U	117-84-0	Di-n-octylphthalate	60	U
91-94-1	3,3'-Dichlorobenzidine	60	U	206-44-0	Fluoranthene	60	U
99-09-2	3-Nitroaniline	60	U	86-73-7	Fluorene	60	U
534-52-1	4,6-Dinitro-2-methylphenol	300	U	118-74-1	Hexachlorobenzene	60	U
101-55-3	4-Bromophenyl-phenylether	60	U	87-68-3	Hexachlorobutadiene	60	U
59-50-7	4-Chloro-3-methylphenol	60	U	77-47-4	Hexachlorocyclopentadiene	60	U
106-47-8	4-Chloroaniline	28	U	67-72-1	Hexachloroethane	60	U
7005-72-3	4-Chlorophenyl-phenylether	60	U	193-39-5	Indeno[1,2,3-cd]pyrene	60	U
100-01-6	4-Nitroaniline	60	U	78-59-1	Isophorone	60	U
100-02-7	4-Nitrophenol	60	U	**91-20-3**	**Naphthalene**	**15**	**52**
83-32-9	Acenaphthene	60	U	98-95-3	Nitrobenzene	60	U
208-96-8	Acenaphthylene	60	U	621-64-7	N-Nitroso-di-n-propylamine	15	U
98-86-2	Acetophenone	60	U	86-30-6	n-Nitrosodiphenylamine	60	U
120-12-7	Anthracene	60	U	87-86-5	Pentachlorophenol	300	U
1912-24-9	Atrazine	60	U	85-01-8	Phenanthrene	60	U
100-52-7	Benzaldehyde	60	U	108-95-2	Phenol	60	U
56-55-3	Benzo[a]anthracene	60	U	129-00-0	Pyrene	60	U
50-32-8	Benzo[a]pyrene	60	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-004(3X)
Client Id: 915239-TP-06-AOC02-
Data File: 7M60751.D
Analysis Date: 10/31/13 11:24
Date Rec/Extracted: 10/29/13-10/30/13

Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 3
Solids: 100
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	629-78-7	Heptadecane	8.79	540 J
2	593-45-3	Octadecane	9.25	2200 J
3	38444-90-5	TRICHLOROBIPHENYL UNK ISOM	9.45	720 J
4	38444-86-9	1,1'-Biphenyl, 2',3,4-trichloro-	9.72	2500 J
5	35693-92-6	1,1'-Biphenyl, 2,4,6-trichloro-	9.79	730 J
6	32598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrachloro-	10.02	1800 J
7	112-95-8	Eicosane	10.20	4200 J
8	112-95-8	Eicosane	10.40	2300 J
9		unknown	10.48	1300 J
10	112-95-8	Eicosane	10.66	19000 J
11	638-67-5	Tricosane	10.85	8100 J
12	40710-32-5	Nonahexacontanoic acid	10.99	2900 J
13	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.28	4500 J
14	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.58	3700 J
15	638-67-5	Tricosane	11.68	6700 J
16	55282-11-6	Heneicosane, 11-(1-ethylpropyl)-	11.77	1500 J
17	638-67-5	Tricosane	11.93	880 J
18		unknown	11.96	820 J
19	646-31-1	Tetracosane	12.07	2100 J
20		unknown	12.16	530 J

Worksheet #: 283677

Total Tentatively Identified Concentration 67000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-005(20X)
Client Id: 915239-TP-06-AOC02-C
Data File: 7M60914.D
Analysis Date: 11/07/13 22:49
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 15ml
Dilution: 20
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	29	U	205-99-2	Benzo[b]fluoranthene	29	U
95-94-3	1,2,4,5-Tetrachlorobenzene	29	U	191-24-2	Benzo[g,h,i]perylene	29	U
58-90-2	2,3,4,6-Tetrachlorophenol	29	U	207-08-9	Benzo[k]fluoranthene	29	U
95-95-4	2,4,5-Trichlorophenol	29	U	111-91-1	bis(2-Chloroethoxy)methan	29	U
88-06-2	2,4,6-Trichlorophenol	29	U	111-44-4	bis(2-Chloroethyl)ether	7.1	U
120-83-2	2,4-Dichlorophenol	7.1	U	108-60-1	bis(2-chloroisopropyl)ether	29	U
105-67-9	2,4-Dimethylphenol	7.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	29	U
51-28-5	2,4-Dinitrophenol	140	U	85-68-7	Butylbenzylphthalate	29	U
121-14-2	2,4-Dinitrotoluene	29	U	105-60-2	Caprolactam	29	U
606-20-2	2,6-Dinitrotoluene	29	U	86-74-8	Carbazole	29	U
91-58-7	2-Chloronaphthalene	29	U	218-01-9	Chrysene	29	U
95-57-8	2-Chlorophenol	29	U	53-70-3	Dibenzo[a,h]anthracene	29	U
91-57-6	2-Methylnaphthalene	29	U	132-64-9	Dibenzofuran	7.1	U
95-48-7	2-Methylphenol	7.1	U	84-66-2	Diethylphthalate	29	U
88-74-4	2-Nitroaniline	29	U	131-11-3	Dimethylphthalate	29	U
88-75-5	2-Nitrophenol	29	U	84-74-2	Di-n-butylphthalate	14	U
106-44-5	3&4-Methylphenol	7.1	U	117-84-0	Di-n-octylphthalate	29	U
91-94-1	3,3'-Dichlorobenzidine	29	U	206-44-0	Fluoranthene	29	U
99-09-2	3-Nitroaniline	29	U	86-73-7	Fluorene	29	U
534-52-1	4,6-Dinitro-2-methylphenol	140	U	118-74-1	Hexachlorobenzene	29	U
101-55-3	4-Bromophenyl-phenylether	29	U	87-68-3	Hexachlorobutadiene	29	U
59-50-7	4-Chloro-3-methylphenol	29	U	77-47-4	Hexachlorocyclopentadiene	29	U
106-47-8	4-Chloroaniline	14	U	67-72-1	Hexachloroethane	29	U
7005-72-3	4-Chlorophenyl-phenylether	29	U	193-39-5	Indeno[1,2,3-cd]pyrene	29	U
100-01-6	4-Nitroaniline	29	U	78-59-1	Isophorone	29	U
100-02-7	4-Nitrophenol	29	U	91-20-3	Naphthalene	7.1	U
83-32-9	Acenaphthene	29	U	98-95-3	Nitrobenzene	29	U
208-96-8	Acenaphthylene	29	U	621-64-7	N-Nitroso-di-n-propylamine	7.1	U
98-86-2	Acetophenone	29	U	86-30-6	n-Nitrosodiphenylamine	29	U
120-12-7	Anthracene	29	U	87-86-5	Pentachlorophenol	140	U
1912-24-9	Atrazine	29	U	85-01-8	Phenanthrene	29	U
100-52-7	Benzaldehyde	29	U	108-95-2	Phenol	29	U
56-55-3	Benzo[a]anthracene	29	U	**129-00-0**	**Pyrene**	**29**	**48**
50-32-8	Benzo[a]pyrene	29	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-005(20X)
Client Id: 915239-TP-06-AOC02-
Data File: 7M60914.D
Analysis Date: 11/07/13 22:49
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 15ml
Dilution: 20
Solids: 70
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	629-92-5	Nonadecane	8.45	300 J
2	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.72	560 J
3	16606-02-3	1,1'-Biphenyl, 2,4',5-trichloro-	9.16	230 J
4	38444-90-5	TRICHLOROBIPHENYL UNK ISOM	9.33	210 J
5	15862-07-4	1,1'-Biphenyl, 2,4,5-trichloro-	9.61	610 J
6	35693-92-6	1,1'-Biphenyl, 2,4,6-trichloro-	9.69	180 J
7	33284-52-5	1,1'-Biphenyl, 3,3',5,5'-tetrachloro-	9.92	260 J
8	544-76-3	Hexadecane	10.43	390 J
9	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	10.68	270 J
10	593-45-3	Octadecane	10.72	260 J
11	3674-73-5	Phenanthrene, 2,3,5-trimethyl-	10.89	200 J
12	31508-00-6	1,1'-Biphenyl, 2,3',4,4',5-pentachloro-	11.06	190 J
13	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.12	470 J
14	25117-24-2	Tetradecane, 4-methyl-	11.22	270 J
15	35545-51-8	Octadecane, 1,1'-[(1-methyl-1,2-ethane	11.46	430 J
16	593-45-3	Octadecane	11.55	490 J
17	2882-96-4	Pentadecane, 3-methyl-	12.79	180 J
18	638-67-5	Tricosane	13.08	270 J
19		unknown	14.17	220 J
20	53584-60-4	28-NOR-17ALPHA(H)-HOPANE	14.44	350 J

Worksheet #: 283677

Total Tentatively Identified Concentration 6300

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-006(20X)(MS:
Client Id: 915239-TP-06-AOC02-C-M
Data File: 7M60915.D
Analysis Date: 11/07/13 23:12
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 8ml
Dilution: 20
Solids: 66

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	16	U	**205-99-2**	**Benzo[b]fluoranthene**	**16**	**12 J**
95-94-3	1,2,4,5-Tetrachlorobenzene	16	U	**191-24-2**	**Benzo[g,h,i]perylene**	**16**	**6.4 J**
58-90-2	2,3,4,6-Tetrachlorophenol	16	U	207-08-9	Benzo[k]fluoranthene	16	U
95-95-4	2,4,5-Trichlorophenol	16	U	111-91-1	bis(2-Chloroethoxy)methan	16	U
88-06-2	2,4,6-Trichlorophenol	16	U	111-44-4	bis(2-Chloroethyl)ether	4.0	U
120-83-2	2,4-Dichlorophenol	4.0	U	108-60-1	bis(2-chloroisopropyl)ether	16	U
105-67-9	2,4-Dimethylphenol	4.0	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**16**	**18**
51-28-5	2,4-Dinitrophenol	81	U	85-68-7	Butylbenzylphthalate	16	U
121-14-2	2,4-Dinitrotoluene	16	U	105-60-2	Caprolactam	16	U
606-20-2	2,6-Dinitrotoluene	16	U	86-74-8	Carbazole	16	U
91-58-7	2-Chloronaphthalene	16	U	**218-01-9**	**Chrysene**	**16**	**16 J**
95-57-8	2-Chlorophenol	16	U	53-70-3	Dibenzo[a,h]anthracene	16	U
91-57-6	2-Methylnaphthalene	16	U	132-64-9	Dibenzofuran	4.0	U
95-48-7	2-Methylphenol	4.0	U	84-66-2	Diethylphthalate	16	U
88-74-4	2-Nitroaniline	16	U	131-11-3	Dimethylphthalate	16	U
88-75-5	2-Nitrophenol	16	U	84-74-2	Di-n-butylphthalate	8.1	U
106-44-5	3&4-Methylphenol	4.0	U	**117-84-0**	**Di-n-octylphthalate**	**16**	**5.2 J**
91-94-1	3,3'-Dichlorobenzidine	16	U	**206-44-0**	**Fluoranthene**	**16**	**11 J**
99-09-2	3-Nitroaniline	16	U	86-73-7	Fluorene	16	U
534-52-1	4,6-Dinitro-2-methylphenol	81	U	118-74-1	Hexachlorobenzene	16	U
101-55-3	4-Bromophenyl-phenylether	16	U	87-68-3	Hexachlorobutadiene	16	U
59-50-7	4-Chloro-3-methylphenol	16	U	77-47-4	Hexachlorocyclopentadiene	16	U
106-47-8	4-Chloroaniline	7.7	U	67-72-1	Hexachloroethane	16	U
7005-72-3	4-Chlorophenyl-phenylether	16	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**16**	**4.3 J**
100-01-6	4-Nitroaniline	16	U	78-59-1	Isophorone	16	U
100-02-7	4-Nitrophenol	16	U	91-20-3	Naphthalene	4.0	U
83-32-9	Acenaphthene	16	U	98-95-3	Nitrobenzene	16	U
208-96-8	Acenaphthylene	16	U	621-64-7	N-Nitroso-di-n-propylamine	4.0	U
98-86-2	Acetophenone	16	U	86-30-6	n-Nitrosodiphenylamine	16	U
120-12-7	Anthracene	16	U	87-86-5	Pentachlorophenol	81	U
1912-24-9	Atrazine	16	U	85-01-8	Phenanthrene	16	U
100-52-7	Benzaldehyde	16	U	108-95-2	Phenol	16	U
56-55-3	**Benzo[a]anthracene**	**16**	**10 J**	**129-00-0**	**Pyrene**	**16**	**38**
50-32-8	**Benzo[a]pyrene**	**16**	**6.4 J**				

U - Indicates the compound was analyzed but not detected.
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E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-006(20X)(MS:
Client Id: 915239-TP-06-AOC02-
Data File: 7M60915.D
Analysis Date: 11/07/13 23:12
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 8ml
Dilution: 20
Solids: 66
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 283677

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-007(20X)(MS
Client Id: 915239-TP-06-AOC02-C-M
Data File: 7M60916.D
Analysis Date: 11/07/13 23:35
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 10ml
Dilution: 20
Solids: 67

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	20	U	**205-99-2**	**Benzo[b]fluoranthene**	**20**	**21**
95-94-3	1,2,4,5-Tetrachlorobenzene	20	U	**191-24-2**	**Benzo[g,h,i]perylene**	**20**	**8.6 J**
58-90-2	2,3,4,6-Tetrachlorophenol	20	U	207-08-9	Benzo[k]fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	20	U	111-91-1	bis(2-Chloroethoxy)methan	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	111-44-4	bis(2-Chloroethyl)ether	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U	108-60-1	bis(2-chloroisopropyl)ether	20	U
105-67-9	2,4-Dimethylphenol	5.0	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**20**	**19 J**
51-28-5	2,4-Dinitrophenol	100	U	85-68-7	Butylbenzylphthalate	20	U
121-14-2	2,4-Dinitrotoluene	20	U	105-60-2	Caprolactam	20	U
606-20-2	2,6-Dinitrotoluene	20	U	86-74-8	Carbazole	20	U
91-58-7	2-Chloronaphthalene	20	U	**218-01-9**	**Chrysene**	**20**	**23**
95-57-8	2-Chlorophenol	20	U	53-70-3	Dibenzo[a,h]anthracene	20	U
91-57-6	2-Methylnaphthalene	20	U	132-64-9	Dibenzofuran	5.0	U
95-48-7	2-Methylphenol	5.0	U	84-66-2	Diethylphthalate	20	U
88-74-4	2-Nitroaniline	20	U	131-11-3	Dimethylphthalate	20	U
88-75-5	2-Nitrophenol	20	U	84-74-2	Di-n-butylphthalate	10	U
106-44-5	3&4-Methylphenol	5.0	U	117-84-0	Di-n-octylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U	**206-44-0**	**Fluoranthene**	**20**	**14 J**
99-09-2	3-Nitroaniline	20	U	86-73-7	Fluorene	20	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U	118-74-1	Hexachlorobenzene	20	U
101-55-3	4-Bromophenyl-phenylether	20	U	87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U	77-47-4	Hexachlorocyclopentadiene	20	U
106-47-8	4-Chloroaniline	9.4	U	67-72-1	Hexachloroethane	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**20**	**9.0 J**
100-01-6	4-Nitroaniline	20	U	78-59-1	Isophorone	20	U
100-02-7	4-Nitrophenol	20	U	91-20-3	Naphthalene	5.0	U
83-32-9	Acenaphthene	20	U	98-95-3	Nitrobenzene	20	U
208-96-8	Acenaphthylene	20	U	621-64-7	N-Nitroso-di-n-propylamine	5.0	U
98-86-2	Acetophenone	20	U	86-30-6	n-Nitrosodiphenylamine	20	U
120-12-7	Anthracene	20	U	87-86-5	Pentachlorophenol	100	U
1912-24-9	Atrazine	20	U	85-01-8	Phenanthrene	20	U
100-52-7	Benzaldehyde	20	U	108-95-2	Phenol	20	U
56-55-3	**Benzo[a]anthracene**	**20**	**13 J**	**129-00-0**	**Pyrene**	**20**	**51**
50-32-8	**Benzo[a]pyrene**	**20**	**8.1 J**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-008(3X)
Client Id: 915239-TP-06-AOC02-D
Data File: 7M60752.D
Analysis Date: 10/31/13 11:47
Date Rec/Extracted: 10/29/13-10/30/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 3
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	60	U	205-99-2	Benzo[b]fluoranthene	60	U
95-94-3	1,2,4,5-Tetrachlorobenzene	60	U	191-24-2	Benzo[g,h,i]perylene	60	U
58-90-2	2,3,4,6-Tetrachlorophenol	60	U	207-08-9	Benzo[k]fluoranthene	60	U
95-95-4	2,4,5-Trichlorophenol	60	U	111-91-1	bis(2-Chloroethoxy)methan	60	U
88-06-2	2,4,6-Trichlorophenol	60	U	111-44-4	bis(2-Chloroethyl)ether	15	U
120-83-2	2,4-Dichlorophenol	15	U	108-60-1	bis(2-chloroisopropyl)ether	60	U
105-67-9	2,4-Dimethylphenol	15	U	117-81-7	bis(2-Ethylhexyl)phthalate	60	U
51-28-5	2,4-Dinitrophenol	300	U	85-68-7	Butylbenzylphthalate	60	U
121-14-2	2,4-Dinitrotoluene	60	U	105-60-2	Caprolactam	60	U
606-20-2	2,6-Dinitrotoluene	60	U	86-74-8	Carbazole	60	U
91-58-7	2-Chloronaphthalene	60	U	218-01-9	Chrysene	60	U
95-57-8	2-Chlorophenol	60	U	53-70-3	Dibenzo[a,h]anthracene	60	U
91-57-6	**2-Methylnaphthalene**	**60**	**210**	132-64-9	Dibenzofuran	15	U
95-48-7	2-Methylphenol	15	U	84-66-2	Diethylphthalate	60	U
88-74-4	2-Nitroaniline	60	U	131-11-3	Dimethylphthalate	60	U
88-75-5	2-Nitrophenol	60	U	**84-74-2**	**Di-n-butylphthalate**	**30**	**100**
106-44-5	3&4-Methylphenol	15	U	117-84-0	Di-n-octylphthalate	60	U
91-94-1	3,3'-Dichlorobenzidine	60	U	206-44-0	Fluoranthene	60	U
99-09-2	3-Nitroaniline	60	U	86-73-7	Fluorene	60	U
534-52-1	4,6-Dinitro-2-methylphenol	300	U	118-74-1	Hexachlorobenzene	60	U
101-55-3	4-Bromophenyl-phenylether	60	U	87-68-3	Hexachlorobutadiene	60	U
59-50-7	4-Chloro-3-methylphenol	60	U	77-47-4	Hexachlorocyclopentadiene	60	U
106-47-8	4-Chloroaniline	28	U	67-72-1	Hexachloroethane	60	U
7005-72-3	4-Chlorophenyl-phenylether	60	U	193-39-5	Indeno[1,2,3-cd]pyrene	60	U
100-01-6	4-Nitroaniline	60	U	78-59-1	Isophorone	60	U
100-02-7	4-Nitrophenol	60	U	**91-20-3**	**Naphthalene**	**15**	**81**
83-32-9	Acenaphthene	60	U	98-95-3	Nitrobenzene	60	U
208-96-8	Acenaphthylene	60	U	621-64-7	N-Nitroso-di-n-propylamine	15	U
98-86-2	Acetophenone	60	U	86-30-6	n-Nitrosodiphenylamine	60	U
120-12-7	Anthracene	60	U	87-86-5	Pentachlorophenol	300	U
1912-24-9	Atrazine	60	U	85-01-8	Phenanthrene	60	U
100-52-7	Benzaldehyde	60	U	108-95-2	Phenol	60	U
56-55-3	Benzo[a]anthracene	60	U	129-00-0	Pyrene	60	U
50-32-8	Benzo[a]pyrene	60	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-008(3X)
Client Id: 915239-TP-06-AOC02-
Data File: 7M60752.D
Analysis Date: 10/31/13 11:47
Date Rec/Extracted: 10/29/13-10/30/13

Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 3
Solids: 100
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	593-45-3	Octadecane	9.24	1900 J
2	55702-45-9	1,1'-Biphenyl, 2,3,6-trichloro-	9.70	2200 J
3	55702-45-9	1,1'-Biphenyl, 2,3,6-trichloro-	9.78	710 J
4	26914-33-0	1,1'-Biphenyl, tetrachloro-	10.01	1600 J
5	32598-11-1	1,1'-Biphenyl, 2,3',4',5-tetrachloro-	10.19	2900 J
6	54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	10.39	2200 J
7	1786-12-5	Cyclotetradecane, 1,7,11-trimethyl-4-(1-	10.46	1100 J
8	74685-33-9	3-Eicosene, (E)-	10.60	9300 J
9	629-94-7	Heneicosane	10.66	2000 J
10	638-67-5	Tricosane	10.85	5000 J
11		unknown	10.99	940 J
12	4443-55-4	Cyclohexane, eicosyl-	11.03	1000 J
13	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.27	4200 J
14	112-95-8	Eicosane	11.36	1900 J
15	629-97-0	Docosane	11.57	3600 J
16	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.68	6500 J
17	55282-11-6	Heneicosane, 11-(1-ethylpropyl)-	11.76	1700 J
18	1795-15-9	Cyclohexane, octyl-	11.92	1200 J
19	629-97-0	Docosane	12.06	2300 J
20	629-99-2	Pentacosane	12.44	1200 J

Worksheet #: 283677

Total Tentatively Identified Concentration 53000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-009(20X)
Client Id: 915239-TP-DUPLICATE-01
Data File: 7M60918.D
Analysis Date: 11/08/13 00:21
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 20ml
Dilution: 20
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	31	U	205-99-2	Benzo[b]fluoranthene	31	U
95-94-3	1,2,4,5-Tetrachlorobenzene	31	U	191-24-2	Benzo[g,h,i]perylene	31	U
58-90-2	2,3,4,6-Tetrachlorophenol	31	U	207-08-9	Benzo[k]fluoranthene	31	U
95-95-4	2,4,5-Trichlorophenol	31	U	111-91-1	bis(2-Chloroethoxy)methan	31	U
88-06-2	2,4,6-Trichlorophenol	31	U	111-44-4	bis(2-Chloroethyl)ether	7.8	U
120-83-2	2,4-Dichlorophenol	7.8	U	108-60-1	bis(2-chloroisopropyl)ether	31	U
105-67-9	2,4-Dimethylphenol	7.8	U	117-81-7	bis(2-Ethylhexyl)phthalate	31	U
51-28-5	2,4-Dinitrophenol	160	U	85-68-7	Butylbenzylphthalate	31	U
121-14-2	2,4-Dinitrotoluene	31	U	105-60-2	Caprolactam	31	U
606-20-2	2,6-Dinitrotoluene	31	U	86-74-8	Carbazole	31	U
91-58-7	2-Chloronaphthalene	31	U	218-01-9	Chrysene	31	U
95-57-8	2-Chlorophenol	31	U	53-70-3	Dibenzo[a,h]anthracene	31	U
91-57-6	2-Methylnaphthalene	31	U	132-64-9	Dibenzofuran	7.8	U
95-48-7	2-Methylphenol	7.8	U	84-66-2	Diethylphthalate	31	U
88-74-4	2-Nitroaniline	31	U	131-11-3	Dimethylphthalate	31	U
88-75-5	2-Nitrophenol	31	U	84-74-2	Di-n-butylphthalate	16	U
106-44-5	3&4-Methylphenol	7.8	U	117-84-0	Di-n-octylphthalate	31	U
91-94-1	3,3'-Dichlorobenzidine	31	U	206-44-0	Fluoranthene	31	U
99-09-2	3-Nitroaniline	31	U	86-73-7	Fluorene	31	U
534-52-1	4,6-Dinitro-2-methylphenol	160	U	118-74-1	Hexachlorobenzene	31	U
101-55-3	4-Bromophenyl-phenylether	31	U	87-68-3	Hexachlorobutadiene	31	U
59-50-7	4-Chloro-3-methylphenol	31	U	77-47-4	Hexachlorocyclopentadiene	31	U
106-47-8	4-Chloroaniline	15	U	67-72-1	Hexachloroethane	31	U
7005-72-3	4-Chlorophenyl-phenylether	31	U	193-39-5	Indeno[1,2,3-cd]pyrene	31	U
100-01-6	4-Nitroaniline	31	U	78-59-1	Isophorone	31	U
100-02-7	4-Nitrophenol	31	U	91-20-3	Naphthalene	7.8	U
83-32-9	Acenaphthene	31	U	98-95-3	Nitrobenzene	31	U
208-96-8	Acenaphthylene	31	U	621-64-7	N-Nitroso-di-n-propylamine	7.8	U
98-86-2	Acetophenone	31	U	86-30-6	n-Nitrosodiphenylamine	31	U
120-12-7	Anthracene	31	U	87-86-5	Pentachlorophenol	160	U
1912-24-9	Atrazine	31	U	85-01-8	Phenanthrene	31	U
100-52-7	Benzaldehyde	31	U	108-95-2	Phenol	31	U
56-55-3	Benzo[a]anthracene	31	U	**129-00-0**	**Pyrene**	**31**	**48**
50-32-8	Benzo[a]pyrene	31	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-009(20X)
Client Id: 915239-TP-DUPLICAT
Data File: 7M60918.D
Analysis Date: 11/08/13 00:21
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 20ml
Dilution: 20
Solids: 85
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	544-76-3	Hexadecane	8.23	600 J
2	1120-21-4	Undecane	8.46	970 J
3	629-78-7	Heptadecane	8.70	970 J
4	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.73	1200 J
5	593-45-3	Octadecane	9.17	1300 J
6	629-92-5	Nonadecane	9.64	1000 J
7	54833-48-6	Heptadecane, 2,6,10,15-tetramethyl-	10.10	1100 J
8	629-62-9	Pentadecane	10.28	1100 J
9	6418-41-3	Tridecane, 3-methyl-	10.44	870 J
10	593-45-3	Octadecane	10.56	1000 J
11	593-45-3	Octadecane	10.73	960 J
12	629-97-0	Docosane	11.00	590 J
13	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	11.15	1600 J
14	638-67-5	Tricosane	11.48	1100 J
15	646-31-1	Tetracosane	11.57	1500 J
16	55282-17-2	Tetracosane, 3-ethyl-	11.97	810 J
17	629-99-2	Pentacosane	12.22	620 J
18	593-49-7	Heptacosane	12.60	640 J
19	629-97-0	Docosane	13.09	670 J
20	40072-53-5	Cholestan-7-one, (5.alpha.,14.beta.)-	14.45	770 J

Worksheet #: 283677

Total Tentatively Identified Concentration 19000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-010(5X)
Client Id: 915239-TP-08-AOC02
Data File: 7M60963.D
Analysis Date: 11/11/13 18:00
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.23	U	205-99-2	Benzo[b]fluoranthene	0.23	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.23	U	191-24-2	Benzo[g,h,i]perylene	0.23	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.23	U	207-08-9	Benzo[k]fluoranthene	0.23	U
95-95-4	2,4,5-Trichlorophenol	0.23	U	111-91-1	bis(2-Chloroethoxy)methan	0.23	U
88-06-2	2,4,6-Trichlorophenol	0.23	U	111-44-4	bis(2-Chloroethyl)ether	0.057	U
120-83-2	2,4-Dichlorophenol	0.057	U	108-60-1	bis(2-chloroisopropyl)ether	0.23	U
105-67-9	2,4-Dimethylphenol	0.057	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**0.23**	**6.7**
51-28-5	2,4-Dinitrophenol	1.1	U	85-68-7	Butylbenzylphthalate	0.23	U
121-14-2	2,4-Dinitrotoluene	0.23	U	105-60-2	Caprolactam	0.23	U
606-20-2	2,6-Dinitrotoluene	0.23	U	86-74-8	Carbazole	0.23	U
91-58-7	2-Chloronaphthalene	0.23	U	218-01-9	Chrysene	0.23	U
95-57-8	2-Chlorophenol	0.23	U	53-70-3	Dibenzo[a,h]anthracene	0.23	U
91-57-6	2-Methylnaphthalene	0.23	U	**132-64-9**	**Dibenzofuran**	**0.057**	**0.060**
95-48-7	2-Methylphenol	0.057	U	84-66-2	Diethylphthalate	0.23	U
88-74-4	2-Nitroaniline	0.23	U	131-11-3	Dimethylphthalate	0.23	U
88-75-5	2-Nitrophenol	0.23	U	**84-74-2**	**Di-n-butylphthalate**	**0.11**	**4.2**
106-44-5	3&4-Methylphenol	0.057	U	117-84-0	Di-n-octylphthalate	0.23	U
91-94-1	3,3'-Dichlorobenzidine	0.23	U	206-44-0	Fluoranthene	0.23	U
99-09-2	3-Nitroaniline	0.23	U	86-73-7	Fluorene	0.23	U
534-52-1	4,6-Dinitro-2-methylphenol	1.1	U	118-74-1	Hexachlorobenzene	0.23	U
101-55-3	4-Bromophenyl-phenylether	0.23	U	87-68-3	Hexachlorobutadiene	0.23	U
59-50-7	4-Chloro-3-methylphenol	0.23	U	77-47-4	Hexachlorocyclopentadiene	0.23	U
106-47-8	4-Chloroaniline	0.11	U	67-72-1	Hexachloroethane	0.23	U
7005-72-3	4-Chlorophenyl-phenylether	0.23	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.23	U
100-01-6	4-Nitroaniline	0.23	U	78-59-1	Isophorone	0.23	U
100-02-7	4-Nitrophenol	0.23	U	91-20-3	Naphthalene	0.057	U
83-32-9	Acenaphthene	0.23	U	98-95-3	Nitrobenzene	0.23	U
208-96-8	Acenaphthylene	0.23	U	621-64-7	N-Nitroso-di-n-propylamine	0.057	U
98-86-2	Acetophenone	0.23	U	86-30-6	n-Nitrosodiphenylamine	0.23	U
120-12-7	Anthracene	0.23	U	87-86-5	Pentachlorophenol	1.1	U
1912-24-9	Atrazine	0.23	U	85-01-8	Phenanthrene	0.23	U
100-52-7	Benzaldehyde	0.23	U	108-95-2	Phenol	0.23	U
56-55-3	Benzo[a]anthracene	0.23	U	129-00-0	Pyrene	0.23	U
50-32-8	Benzo[a]pyrene	0.23	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75417-010(5X)
Client Id: 915239-TP-08-AOC02
Data File: 7M60963.D
Analysis Date: 11/11/13 18:00
Date Rec/Extracted: 10/29/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 73
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	4.36	27 JAB
2	5131-66-8	2-Propanol, 1-butoxy-	5.05	0.92 JB
3	544-76-3	Hexadecane	8.24	0.77 J
4	629-78-7	Heptadecane	8.70	1.1 J
5	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-3	8.84	1.8 J
6		unknown	9.05	1.4 J
7	593-45-3	Octadecane	9.16	1.1 J
8	629-92-5	Nonadecane	9.62	1.0 J
9	606-12-2	Methanone, (2-hydroxyphenyl)(4-hydrox	10.78	7.0 J
10	606-12-2	Methanone, (2-hydroxyphenyl)(4-hydrox	11.92	1.9 J
11		unknown	12.00	0.74 J
12	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-3	12.54	1.9 J
13	563-04-2	Tri-m-cresyl phosphate	12.82	5.5 J
14		unknown	12.89	1.1 J
15	563-04-2	Tri-m-cresyl phosphate	12.94	8.1 J
16		unknown	13.00	0.90 J
17	563-04-2	Tri-m-cresyl phosphate	13.06	5.0 J
18		unknown	13.20	3.1 J
19		unknown	13.33	0.97 J
20	3910-35-8	1H-Indene, 2,3-dihydro-1,1,3-trimethyl-3	15.77	1.0 J

Worksheet #: 283677

Total Tentatively Identified Concentration 72

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-001(100X)
Client Id: 915239-TP-01-AOC01
Data File: 2G85665.D
Analysis Date: 11/08/13 13:23
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 100
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	3.6	U	11097-69-1	Aroclor-1254	3.6	U
11104-28-2	Aroclor-1221	3.6	U	11096-82-5	Aroclor-1260	3.6	U
11141-16-5	Aroclor-1232	3.6	U	37324-23-5	Aroclor-1262	3.6	U
53469-21-9	**(^)Aroclor-1242**	**3.6**	**210**	11100-14-4	Aroclor-1268	3.6	U
12672-29-6	Aroclor-1248	3.6	U	**1336-36-3**	**Aroclor (Total)**	**3.6**	**210**

Worksheet #: 283874

Total Target Concentration 210

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-002(20X)
Client Id: 915239-TP-04-AOC01
Data File: 2G85663.D
Analysis Date: 11/08/13 12:50
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 20
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.71	U	11097-69-1	Aroclor-1254	0.71	U
11104-28-2	Aroclor-1221	0.71	U	11096-82-5	Aroclor-1260	0.71	U
11141-16-5	Aroclor-1232	0.71	U	37324-23-5	Aroclor-1262	0.71	U
53469-21-9	Aroclor-1242	0.71	U	11100-14-4	Aroclor-1268	0.71	U
12672-29-6	**(^)Aroclor-1248**	**0.71**	**31**	**1336-36-3**	**Aroclor (Total)**	**0.71**	**31**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-003(5000X)
Client Id: 915239-TP-06-AOC02-A
Data File: 2G85725.D
Analysis Date: 11/12/13 13:44
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 5000
Solids: 87

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	140	U	11097-69-1	Aroclor-1254	140	U
11104-28-2	Aroclor-1221	140	U	11096-82-5	Aroclor-1260	140	U
11141-16-5	Aroclor-1232	140	U	37324-23-5	Aroclor-1262	140	U
53469-21-9	**(^)Aroclor-1242**	**140**	**4000**	11100-14-4	Aroclor-1268	140	U
12672-29-6	Aroclor-1248	140	U	**1336-36-3**	**Aroclor (Total)**	**140**	**4000**

Worksheet #: 283874

Total Target Concentration 4000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-004(100X)
Client Id: 915239-TP-06-AOC02-B
Data File: 2G85666.D
Analysis Date: 11/08/13 13:38
Date Rec/Extracted: 10/29/13-11/06/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 0.1g
Final Vol: 10ml
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	500	U	11097-69-1	Aroclor-1254	500	U
11104-28-2	Aroclor-1221	500	U	11096-82-5	Aroclor-1260	500	U
11141-16-5	Aroclor-1232	500	U	37324-23-5	Aroclor-1262	500	U
53469-21-9	**(^)Aroclor-1242**	**500**	**23000**	11100-14-4	Aroclor-1268	500	U
12672-29-6	Aroclor-1248	500	U	**1336-36-3**	**Aroclor (Total)**	**500**	**23000**

Worksheet #: 283874

Total Target Concentration 23000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-005(1000X)
Client Id: 915239-TP-06-AOC02-C
Data File: 3G80525.D
Analysis Date: 11/08/13 12:31
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	36	U	11097-69-1	Aroclor-1254	36	U
11104-28-2	Aroclor-1221	36	U	11096-82-5	Aroclor-1260	36	U
11141-16-5	Aroclor-1232	36	U	37324-23-5	Aroclor-1262	36	U
53469-21-9	**Aroclor-1242**	**36**	**1600**	11100-14-4	Aroclor-1268	36	U
12672-29-6	Aroclor-1248	36	U	**1336-36-3**	**Aroclor (Total)**	**36**	**1600**

Worksheet #: 283874

Total Target Concentration 1600

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-006(1000X)(
Client Id: 915239-TP-06-AOC02-C-M
Data File: 3G80523.D
Analysis Date: 11/08/13 12:01
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 66

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	38	U	11097-69-1	Aroclor-1254	38	U
11104-28-2	Aroclor-1221	38	U	11096-82-5	Aroclor-1260	38	U
11141-16-5	Aroclor-1232	38	U	37324-23-5	Aroclor-1262	38	U
53469-21-9	**Aroclor-1242**	**38**	**1900**	11100-14-4	Aroclor-1268	38	U
12672-29-6	Aroclor-1248	38	U	**1336-36-3**	**Aroclor (Total)**	**38**	**1900**

Worksheet #: 283874

Total Target Concentration 1900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-007(1000X)(
Client Id: 915239-TP-06-AOC02-C-M
Data File: 3G80524.D
Analysis Date: 11/08/13 12:16
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 67

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	37	U	11097-69-1	Aroclor-1254	37	U
11104-28-2	Aroclor-1221	37	U	11096-82-5	Aroclor-1260	37	U
11141-16-5	Aroclor-1232	37	U	37324-23-5	Aroclor-1262	37	U
53469-21-9	**Aroclor-1242**	**37**	**1600**	11100-14-4	Aroclor-1268	37	U
12672-29-6	Aroclor-1248	37	U	**1336-36-3**	**Aroclor (Total)**	**37**	**1600**

Worksheet #: 283874

Total Target Concentration 1600

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-008(100X)
Client Id: 915239-TP-06-AOC02-D
Data File: 2G85667.D
Analysis Date: 11/08/13 13:53
Date Rec/Extracted: 10/29/13-11/06/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 0.1g
Final Vol: 10ml
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	500	U	11097-69-1	Aroclor-1254	500	U
11104-28-2	Aroclor-1221	500	U	11096-82-5	Aroclor-1260	500	U
11141-16-5	Aroclor-1232	500	U	37324-23-5	Aroclor-1262	500	U
53469-21-9	**(^)Aroclor-1242**	**500**	**22000**	11100-14-4	Aroclor-1268	500	U
12672-29-6	Aroclor-1248	500	U	**1336-36-3**	**Aroclor (Total)**	**500**	**22000**

Worksheet #: 283874

Total Target Concentration 22000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-009(1000X)
Client Id: 915239-TP-DUPLICATE-01
Data File: 3G80527.D
Analysis Date: 11/08/13 13:01
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	29	U	11097-69-1	Aroclor-1254	29	U
11104-28-2	Aroclor-1221	29	U	11096-82-5	Aroclor-1260	29	U
11141-16-5	Aroclor-1232	29	U	37324-23-5	Aroclor-1262	29	U
53469-21-9	**Aroclor-1242**	**29**	**1900**	11100-14-4	Aroclor-1268	29	U
12672-29-6	Aroclor-1248	29	U	**1336-36-3**	**Aroclor (Total)**	**29**	**1900**

Worksheet #: 283874

Total Target Concentration 1900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-010
Client Id: 915239-TP-08-AOC02
Data File: 3G80580.D
Analysis Date: 11/11/13 15:06
Date Rec/Extracted: 10/29/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.034	U	**11097-69-1**	**Aroclor-1254**	**0.034**	**0.28**
11104-28-2	Aroclor-1221	0.034	U	11096-82-5	Aroclor-1260	0.034	U
11141-16-5	Aroclor-1232	0.034	U	**37324-23-5**	**(^)Aroclor-1262**	**0.034**	**0.25**
53469-21-9	Aroclor-1242	0.034	U	11100-14-4	Aroclor-1268	0.034	U
12672-29-6	Aroclor-1248	0.034	U	**1336-36-3**	**Aroclor (Total)**	**0.034**	**0.53**

Worksheet #: 283877

Total Target Concentration 0.28

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

FORM1
ORGANICS GC FINGERPRINT REPORT

Lab#: AC75417-004
ClientID: 915239-TP-06-AOC02-B
AnalysisDate: 11/12/2013
Collect_Date: 10/24/2013
Matrix: Oil

TPH-FINGERPRINT GC-FID	RESULT
Diesel/#2 Fuel Oil	No Match
Gasoline	No Match
Hydraulic Oil	No Match
Jet/Kerosene/No.1 Fuel Oil	No Match
Mineral Oil	No Match
Mineral Spirits	No Match
No.3 Fuel Oil	No Match
No.4 Fuel Oil	No Match
No.5 Fuel Oil	No Match
No.6 Fuel Oil	No Match
SAE-10W30 MOTOR OIL	No Match
SAE-10W40 MOTOR OIL	No Match
SAE-20W50 MOTOR OIL	No Match
SAE-30W MOTOR OIL	No Match
SAE-40W MOTOR OIL	No Match
SAE-50W MOTOR OIL	No Match
SAE-5W30 MOTOR OIL	No Match

FORM1
ORGANICS GC FINGERPRINT REPORT

Lab#: AC75417-008
ClientID: 915239-TP-06-AOC02-D
AnalysisDate: 11/12/2013
Collect_Date: 10/24/2013
Matrix: Oil

TPH-FINGERPRINT GC-FID	RESULT
Diesel/#2 Fuel Oil	No Match
Gasoline	No Match
Hydraulic Oil	No Match
Jet/Kerosene/No.1 Fuel Oil	No Match
Mineral Oil	No Match
Mineral Spirits	No Match
No.3 Fuel Oil	No Match
No.4 Fuel Oil	No Match
No.5 Fuel Oil	No Match
No.6 Fuel Oil	No Match
SAE-10W30 MOTOR OIL	No Match
SAE-10W40 MOTOR OIL	No Match
SAE-20W50 MOTOR OIL	No Match
SAE-30W MOTOR OIL	No Match
SAE-40W MOTOR OIL	No Match
SAE-50W MOTOR OIL	No Match
SAE-5W30 MOTOR OIL	No Match

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-001	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-01-AOC01	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	290	4300	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7440-36-0	Antimony	5.7	8.0	1	0.5	50	11/09/13	27384	S15670C3	26	P	PEICP3A
7440-38-2	Arsenic	5.7	ND	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-39-3	Barium	14	70	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-41-7	Beryllium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-43-9	Cadmium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-70-2	Calcium	1400	22000	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7440-47-3	Chromium	7.1	260	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-48-4	Cobalt	3.6	8.5	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-50-8	Copper	7.1	120	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7439-89-6	Iron	290	68000	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7439-92-1	Lead	7.1	30	1	0.5	50	11/09/13	27384	S15670D3	17	P	PEICP3A
7439-95-4	Magnesium	710	1600	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7439-96-5	Manganese	14	1500	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7439-97-6	Mercury	0.12	ND	1	0.15	25	11/11/13	27384	H15670S	39	CV	HGCV2A
7440-02-0	Nickel	7.1	75	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-09-7	Potassium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7440-22-4	Silver	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-23-5	Sodium	360	ND	1	0.5	50	11/07/13	27384	S15670B3	49	P	PEICPRAD3A
7440-28-0	Thallium	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-62-2	Vanadium	14	17	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A
7440-66-6	Zinc	14	150	1	0.5	50	11/07/13	27384	S15670A3	50	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-001	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-01-AOC01	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.9	ND	1	0.5	100	11/06/13	27386	S110613B	29	MS	MS2_7500SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-002	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-04-AOC01	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	290	3000	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7440-36-0	Antimony	5.7	ND	1	0.5	50	11/09/13	27384	S15670C3	24	P	PEICP3A
7440-38-2	Arsenic	5.7	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-39-3	Barium	14	63	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-41-7	Beryllium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-43-9	Cadmium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-70-2	Calcium	1400	14000	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7440-47-3	Chromium	7.1	78	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-48-4	Cobalt	3.6	4.5	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-50-8	Copper	7.1	61	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7439-89-6	Iron	290	46000	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7439-92-1	Lead	7.1	34	1	0.5	50	11/09/13	27384	S15670D3	15	P	PEICP3A
7439-95-4	Magnesium	710	2600	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7439-96-5	Manganese	14	1100	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7439-97-6	Mercury	0.12	ND	1	0.15	25	11/11/13	27384	H15670S	24	CV	HGCV2A
7440-02-0	Nickel	7.1	30	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-09-7	Potassium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7440-22-4	Silver	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-23-5	Sodium	360	ND	1	0.5	50	11/07/13	27384	S15670B3	25	P	PEICPRAD3A
7440-28-0	Thallium	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-62-2	Vanadium	14	ND	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A
7440-66-6	Zinc	14	69	1	0.5	50	11/07/13	27384	S15670A3	26	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-002	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-04-AOC01	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.9	ND	1	0.5	100	11/06/13	27386	S110613B	30	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-003	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	230	750	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7440-36-0	Antimony	4.6	8.9	1	0.5	50	11/09/13	27384	S15670C3	29	P	PEICP3A
7440-38-2	Arsenic	4.6	ND	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-39-3	Barium	11	2700	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-41-7	Beryllium	1.4	ND	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-43-9	Cadmium	1.4	1.4	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-70-2	Calcium	1100	2200	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7440-47-3	Chromium	5.7	65	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-48-4	Cobalt	2.9	4.7	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-50-8	Copper	5.7	630	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7439-89-6	Iron	230	3400	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7439-92-1	Lead	57	18000	10	0.5	50	11/11/13	27384	S15670E3	42	P	PEICP3A
7439-95-4	Magnesium	570	ND	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7439-96-5	Manganese	11	29	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7439-97-6	Mercury	0.096	1.4	1	0.15	25	11/11/13	27384	H15670S	25	CV	HGCV2A
7440-02-0	Nickel	5.7	7.7	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-09-7	Potassium	570	ND	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7440-22-4	Silver	1.7	3.8	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-23-5	Sodium	290	ND	1	0.5	50	11/07/13	27384	S15670B3	26	P	PEICPRAD3A
7440-28-0	Thallium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-62-2	Vanadium	11	ND	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A
7440-66-6	Zinc	11	150	1	0.5	50	11/07/13	27384	S15670A3	27	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-003	% Solid:	87	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.3	ND	1	0.5	100	11/06/13	27386	S110613B	31	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-004	% Solid:	100	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-36-0	Antimony	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-38-2	Arsenic	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-39-3	Barium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-41-7	Beryllium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-43-9	Cadmium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-70-2	Calcium	1000	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-47-3	Chromium	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-48-4	Cobalt	2.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-50-8	Copper	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7439-89-6	Iron	200	220	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7439-92-1	Lead	5.0	27	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7439-95-4	Magnesium	500	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7439-96-5	Manganese	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7439-97-6	Mercury	0.083	ND	1	0.15	25	11/11/13	27382	H15668Sb	23	CV	HGCV1A
7440-02-0	Nickel	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-09-7	Potassium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	24	P	EICPRAD2OILA
7782-49-2	Selenium	3.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-22-4	Silver	1.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-23-5	Sodium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	24	P	EICPRAD2OILA
7440-28-0	Thallium	2.0	ND	1	0.5	50	11/12/13	27382	IL15668D2	15	P	PEICP2OILA
7440-62-2	Vanadium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA
7440-66-6	Zinc	20	ND	1	0.5	50	11/11/13	27382	IL15668A2	24	P	PEICP2OILA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-005	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	290	740	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7440-36-0	Antimony	5.7	19	1	0.5	50	11/09/13	27384	S15670C3	15	P	PEICP3A
7440-38-2	Arsenic	5.7	ND	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-39-3	Barium	14	2900	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-41-7	Beryllium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-43-9	Cadmium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-70-2	Calcium	1400	1900	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7440-47-3	Chromium	7.1	85	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-48-4	Cobalt	3.6	7.2	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-50-8	Copper	7.1	300	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7439-89-6	Iron	290	17000	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7439-92-1	Lead	71	20000	10	0.5	50	11/11/13	27384	S15670E3	31	P	PEICP3A
7439-95-4	Magnesium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7439-96-5	Manganese	14	88	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7439-97-6	Mercury	0.12	1.8	1	0.15	25	11/11/13	27384	H15670S	16	CV	HGCV2A
7440-02-0	Nickel	7.1	19	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-09-7	Potassium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7440-22-4	Silver	2.1	3.0	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-23-5	Sodium	360	ND	1	0.5	50	11/07/13	27384	S15670B3	14	P	PEICPRAD3A
7440-28-0	Thallium	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-62-2	Vanadium	14	ND	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A
7440-66-6	Zinc	14	160	1	0.5	50	11/07/13	27384	S15670A3	15	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-005	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.9	ND	1	0.5	100	11/06/13	27386	S110613B	19	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-006	% Solid:	66	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	300	2100	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7440-36-0	Antimony	6.1	70	1	0.5	50	11/09/13	27384	S15670C3	17	P	PEICP3A
7440-38-2	Arsenic	6.1	59	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-39-3	Barium	15	3500	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-41-7	Beryllium	1.8	71	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-43-9	Cadmium	1.8	71	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-70-2	Calcium	1500	10000	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7440-47-3	Chromium	7.6	160	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-48-4	Cobalt	3.8	83	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-50-8	Copper	7.6	620	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7439-89-6	Iron	300	20000	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7439-92-1	Lead	76	21000	10	0.5	50	11/11/13	27384	S15670E3	33	P	PEICP3A
7439-95-4	Magnesium	760	7600	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7439-96-5	Manganese	15	220	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7439-97-6	Mercury	0.13	3.6	1	0.15	25	11/11/13	27384	H15670S	18	CV	HGCV2A
7440-02-0	Nickel	7.6	89	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-09-7	Potassium	760	7600	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7440-22-4	Silver	2.3	18	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-23-5	Sodium	380	7400	1	0.5	50	11/07/13	27384	S15670B3	16	P	PEICPRAD3A
7440-28-0	Thallium	2.3	70	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-62-2	Vanadium	15	82	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A
7440-66-6	Zinc	15	270	1	0.5	50	11/07/13	27384	S15670A3	17	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-006	% Solid:	66	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	3.0	67	1	0.5	100	11/06/13	27386	S110613B	22	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-007	% Solid:	67	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	300	2200	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7440-36-0	Antimony	6.0	74	1	0.5	50	11/09/13	27384	S15670C3	18	P	PEICP3A
7440-38-2	Arsenic	6.0	57	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-39-3	Barium	15	3500	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-41-7	Beryllium	1.8	71	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-43-9	Cadmium	1.8	71	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-70-2	Calcium	1500	9500	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7440-47-3	Chromium	7.5	160	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-48-4	Cobalt	3.7	82	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-50-8	Copper	7.5	380	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7439-89-6	Iron	300	20000	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7439-92-1	Lead	75	20000	10	0.5	50	11/11/13	27384	S15670E3	34	P	PEICP3A
7439-95-4	Magnesium	750	7400	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7439-96-5	Manganese	15	170	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7439-97-6	Mercury	0.12	4.0	1	0.15	25	11/11/13	27384	H15670S	19	CV	HGCV2A
7440-02-0	Nickel	7.5	91	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-09-7	Potassium	750	7400	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7440-22-4	Silver	2.2	17	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-23-5	Sodium	370	7300	1	0.5	50	11/07/13	27384	S15670B3	17	P	PEICPRAD3A
7440-28-0	Thallium	2.2	70	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-62-2	Vanadium	15	80	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A
7440-66-6	Zinc	15	260	1	0.5	50	11/07/13	27384	S15670A3	18	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-007	% Solid:	67	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	3.0	69	1	0.5	100	11/06/13	27386	S110613B	23	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-008	% Solid:	100	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-36-0	Antimony	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-38-2	Arsenic	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-39-3	Barium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-41-7	Beryllium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-43-9	Cadmium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-70-2	Calcium	1000	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-47-3	Chromium	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-48-4	Cobalt	2.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-50-8	Copper	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7439-89-6	Iron	200	400	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7439-92-1	Lead	5.0	260	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7439-95-4	Magnesium	500	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7439-96-5	Manganese	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7439-97-6	Mercury	0.083	ND	1	0.15	25	11/11/13	27382	H15668Sb	24	CV	HGCV1A
7440-02-0	Nickel	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-09-7	Potassium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	25	P	EICPRAD2OILA
7782-49-2	Selenium	3.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-22-4	~~Silver~~	~~1.5~~	~~ND~~	~~1~~	~~0.5~~	~~50~~	~~11/11/13~~	~~27382~~	~~IL15668A2~~	25	P	PEICP2OILA
7440-23-5	Sodium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	25	P	EICPRAD2OILA
7440-28-0	Thallium	2.0	ND	1	0.5	50	11/12/13	27382	IL15668D2	16	P	PEICP2OILA
7440-62-2	Vanadium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA
7440-66-6	Zinc	20	ND	1	0.5	50	11/11/13	27382	IL15668A2	25	P	PEICP2OILA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-009	% Solid:	85	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-DUPLICAT	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	240	490	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7440-36-0	Antimony	4.7	14	1	0.5	50	11/09/13	27384	S15670C3	30	P	PEICP3A
7440-38-2	Arsenic	4.7	ND	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-39-3	Barium	12	2800	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-41-7	Beryllium	1.4	ND	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-43-9	Cadmium	1.4	ND	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-70-2	Calcium	1200	ND	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7440-47-3	Chromium	5.9	66	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-48-4	Cobalt	2.9	4.7	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-50-8	Copper	5.9	270	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7439-89-6	Iron	240	7600	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7439-92-1	Lead	59	18000	10	0.5	50	11/11/13	27384	S15670E3	43	P	PEICP3A
7439-95-4	Magnesium	590	ND	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7439-96-5	Manganese	12	28	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7439-97-6	Mercury	0.098	1.1	1	0.15	25	11/11/13	27384	H15670S	26	CV	HGCV2A
7440-02-0	Nickel	5.9	5.9	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-09-7	Potassium	590	ND	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7440-22-4	Silver	1.8	4.2	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-23-5	Sodium	290	ND	1	0.5	50	11/07/13	27384	S15670B3	27	P	PEICPRAD3A
7440-28-0	Thallium	1.8	ND	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-62-2	Vanadium	12	ND	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A
7440-66-6	Zinc	12	25	1	0.5	50	11/07/13	27384	S15670A3	28	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-009	% Solid:	85	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-DUPLICAT	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.4	ND	1	0.5	100	11/06/13	27386	S110613B	32	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-010	% Solid:	73	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-08-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	270	1100	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7440-36-0	Antimony	5.5	ND	1	0.5	50	11/09/13	27384	S15670C3	25	P	PEICP3A
7440-38-2	Arsenic	5.5	21	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-39-3	Barium	14	24	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-41-7	Beryllium	1.6	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-43-9	Cadmium	1.6	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-70-2	Calcium	1400	2800	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7440-47-3	Chromium	6.8	40	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-48-4	Cobalt	3.4	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-50-8	Copper	6.8	350	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7439-89-6	Iron	270	5400	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7439-92-1	Lead	6.8	230	1	0.5	50	11/09/13	27384	S15670D3	16	P	PEICP3A
7439-95-4	Magnesium	680	ND	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7439-96-5	Manganese	14	67	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7439-97-6	Mercury	0.11	ND	1	0.15	25	11/11/13	27384	H15670S	27	CV	HGCV2A
7440-02-0	Nickel	6.8	13	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-09-7	Potassium	680	ND	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7440-22-4	Silver	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-23-5	Sodium	340	ND	1	0.5	50	11/07/13	27384	S15670B3	28	P	PEICPRAD3A
7440-28-0	Thallium	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-62-2	Vanadium	14	ND	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A
7440-66-6	Zinc	14	22	1	0.5	50	11/07/13	27384	S15670A3	29	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-010	% Solid:	73	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-08-AOC02	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.7	ND	1	0.5	100	11/06/13	27386	S110613B	33	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3102904**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AC75417-001	915239-TP-01-AO	Sludge	1	70	Percent			10/30/13	10/29/13	10/24/13
AC75417-002	915239-TP-04-AO	Sludge	1	70	Percent			10/30/13	10/29/13	10/24/13
AC75417-003	915239-TP-06-AO	Sludge	1	87	Percent			10/30/13	10/29/13	10/24/13
AC75417-005	915239-TP-06-AO	Sludge	1	70	Percent			10/30/13	10/29/13	10/24/13
AC75417-006	915239-TP-06-AO	Sludge	1	66	Percent			10/30/13	10/29/13	10/24/13
AC75417-007	915239-TP-06-AO	Sludge	1	67	Percent			10/30/13	10/29/13	10/24/13
AC75417-009	915239-TP-DUPLI	Sludge	1	85	Percent			10/30/13	10/29/13	10/24/13
AC75417-010	915239-TP-08-AO	Sludge	1	73	Percent			10/30/13	10/29/13	10/25/13

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-001(T)
Client Id: 915239-TP-01-AOC01
Data File: 1M09163.D
Analysis Date: 11/07/13 17:16
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	**108-90-7**	**Chlorobenzene**	**0.0010**	**0.0012**
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 285068

Total Target Concentration 0.0012

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-002(T)
Client Id: 915239-TP-04-AOC01
Data File: 1M09210.D
Analysis Date: 11/08/13 09:25
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 285068

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-003(T)
Client Id: 915239-TP-06-AOC02-A
Data File: 1M09211.D
Analysis Date: 11/08/13 09:41
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 285068

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-005(T)
Client Id: 915239-TP-06-AOC02-C
Data File: 1M09212.D
Analysis Date: 11/08/13 09:58
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	2-Butanone	0.0010	U	79-01-6	Trichloroethene	0.0010	U
71-43-2	Benzene	0.00050	U	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 285068

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75417-010(20X)(T)
Client Id: 915239-TP-08-AOC02
Data File: 1M09216.D
Analysis Date: 11/08/13 11:05
Date Rec/Extracted: 10/29/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 20.0
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.020	U	108-90-7	Chlorobenzene	0.020	U
107-06-2	1,2-Dichloroethane	0.010	U	67-66-3	Chloroform	0.020	U
106-46-7	1,4-Dichlorobenzene	0.020	U	**127-18-4**	**Tetrachloroethene**	**0.020**	**0.050**
78-93-3	2-Butanone	0.020	U	**79-01-6**	**Trichloroethene**	**0.020**	**0.69**
71-43-2	Benzene	0.010	U	75-01-4	Vinyl Chloride	0.020	U
56-23-5	Carbon Tetrachloride	0.020	U				

Worksheet #: 285068

Total Target Concentration 0.74

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-001(T)
Client Id: 915239-TP-01-AOC01
Data File: 10M41081.D
Analysis Date: 11/11/13 17:27
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.0080	U	87-68-3	Hexachlorobutadiene	0.0080	U
88-06-2	2,4,6-Trichlorophenol	0.0080	U	67-72-1	Hexachloroethane	0.0080	U
121-14-2	2,4-Dinitrotoluene	0.0080	U	98-95-3	Nitrobenzene	0.0080	U
95-48-7	2-Methylphenol	0.0020	U	87-86-5	Pentachlorophenol	0.040	U
106-44-5	3&4-Methylphenol	0.0020	U	110-86-1	Pyridine	0.040	U
118-74-1	Hexachlorobenzene	0.0080	U				

Worksheet #: 283670

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-002(T)
Client Id: 915239-TP-04-AOC01
Data File: 10M41082.D
Analysis Date: 11/11/13 17:49
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.0080	U	87-68-3	Hexachlorobutadiene	0.0080	U
88-06-2	2,4,6-Trichlorophenol	0.0080	U	67-72-1	Hexachloroethane	0.0080	U
121-14-2	2,4-Dinitrotoluene	0.0080	U	98-95-3	Nitrobenzene	0.0080	U
95-48-7	2-Methylphenol	0.0020	U	87-86-5	Pentachlorophenol	0.040	U
106-44-5	3&4-Methylphenol	0.0020	U	110-86-1	Pyridine	0.040	U
118-74-1	Hexachlorobenzene	0.0080	U				

Worksheet #: 285247

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-003(5X)(T)
Client Id: 915239-TP-06-AOC02-A
Data File: 10M41087.D
Analysis Date: 11/11/13 19:41
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 1.5ml
Dilution: 5
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.060	U	87-68-3	Hexachlorobutadiene	0.060	U
88-06-2	2,4,6-Trichlorophenol	0.060	U	67-72-1	Hexachloroethane	0.060	U
121-14-2	2,4-Dinitrotoluene	0.060	U	98-95-3	Nitrobenzene	0.060	U
95-48-7	2-Methylphenol	0.015	U	87-86-5	Pentachlorophenol	0.30	U
106-44-5	3&4-Methylphenol	0.015	U	110-86-1	Pyridine	0.30	U
118-74-1	Hexachlorobenzene	0.060	U				

Worksheet #: 284785

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-005(5X)(T)
Client Id: 915239-TP-06-AOC02-C
Data File: 10M41084.D
Analysis Date: 11/11/13 18:34
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 1.5ml
Dilution: 5
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.060	U	87-68-3	Hexachlorobutadiene	0.060	U
88-06-2	2,4,6-Trichlorophenol	0.060	U	67-72-1	Hexachloroethane	0.060	U
121-14-2	2,4-Dinitrotoluene	0.060	U	98-95-3	Nitrobenzene	0.060	U
95-48-7	2-Methylphenol	0.015	U	87-86-5	Pentachlorophenol	0.30	U
106-44-5	3&4-Methylphenol	0.015	U	110-86-1	Pyridine	0.30	U
118-74-1	Hexachlorobenzene	0.060	U				

Worksheet #: 285247

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75417-010(T)
Client Id: 915239-TP-08-AOC02
Data File: 10M41083.D
Analysis Date: 11/11/13 18:12
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.0080	U	87-68-3	Hexachlorobutadiene	0.0080	U
88-06-2	2,4,6-Trichlorophenol	0.0080	U	67-72-1	Hexachloroethane	0.0080	U
121-14-2	2,4-Dinitrotoluene	0.0080	U	98-95-3	Nitrobenzene	0.0080	U
95-48-7	2-Methylphenol	0.0020	U	87-86-5	Pentachlorophenol	0.040	U
106-44-5	3&4-Methylphenol	0.0020	U	110-86-1	Pyridine	0.040	U
118-74-1	Hexachlorobenzene	0.0080	U				

Worksheet #: 284785

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-001(T)
Client Id: 915239-TP-01-AOC01
Data File: 3G80595.D
Analysis Date: 11/11/13 20:22
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.0025	U	11097-69-1	Aroclor-1254	0.0025	U
11104-28-2	Aroclor-1221	0.0025	U	11096-82-5	Aroclor-1260	0.0025	U
11141-16-5	Aroclor-1232	0.0025	U	37324-23-5	Aroclor-1262	0.0025	U
53469-21-9	**Aroclor-1242**	**0.0025**	**0.0048**	11100-14-4	Aroclor-1268	0.0025	U
12672-29-6	Aroclor-1248	0.0025	U	**1336-36-3**	**Aroclor (Total)**	**0.0025**	**0.0048**

Worksheet #: 284193

Total Target Concentration 0.0048

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-002(T)
Client Id: 915239-TP-04-AOC01
Data File: 2G85748.D
Analysis Date: 11/12/13 21:37
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.0025	U	11097-69-1	Aroclor-1254	0.0025	U
11104-28-2	Aroclor-1221	0.0025	U	11096-82-5	Aroclor-1260	0.0025	U
11141-16-5	Aroclor-1232	0.0025	U	37324-23-5	Aroclor-1262	0.0025	U
53469-21-9	Aroclor-1242	0.0025	U	11100-14-4	Aroclor-1268	0.0025	U
12672-29-6	**(^)Aroclor-1248**	**0.0025**	**0.022**	**1336-36-3**	**Aroclor (Total)**	**0.0025**	**0.022**

Worksheet #: 285022

Total Target Concentration 0.022

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-003(1000X)(T
Client Id: 915239-TP-06-AOC02-A
Data File: 3G80780.D
Analysis Date: 11/15/13 22:53
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 1000
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	2.5	U	11097-69-1	Aroclor-1254	2.5	U
11104-28-2	Aroclor-1221	2.5	U	11096-82-5	Aroclor-1260	2.5	U
11141-16-5	Aroclor-1232	2.5	U	37324-23-5	Aroclor-1262	2.5	U
53469-21-9	**(^)Aroclor-1242**	**2.5**	**46**	11100-14-4	Aroclor-1268	2.5	U
12672-29-6	Aroclor-1248	2.5	U	**1336-36-3**	**Aroclor (Total)**	**2.5**	**46**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-005(100X)(T)
Client Id: 915239-TP-06-AOC02-C
Data File: 2G85834.D
Analysis Date: 11/14/13 20:44
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 100
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	**(^)Aroclor-1242**	**0.25**	**8.1**	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**8.1**

Worksheet #: 285022

Total Target Concentration 8.1

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75417-010(T)
Client Id: 915239-TP-08-AOC02
Data File: 2G85749.D
Analysis Date: 11/12/13 21:52
Date Rec/Extracted: 10/29/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.0025	U	11097-69-1	Aroclor-1254	0.0025	U
11104-28-2	Aroclor-1221	0.0025	U	11096-82-5	Aroclor-1260	0.0025	U
11141-16-5	Aroclor-1232	0.0025	U	37324-23-5	Aroclor-1262	0.0025	U
53469-21-9	Aroclor-1242	0.0025	U	11100-14-4	Aroclor-1268	0.0025	U
12672-29-6	Aroclor-1248	0.0025	U	1336-36-3	Aroclor (Total)	0.0025	U

Worksheet #: 284863

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-001	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-01-AOC01	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7440-39-3	Barium	0.25	0.51	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7440-47-3	Chromium	0.10	0.13	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7439-92-1	Lead	0.050	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/08/13	27370	H15657T	36	CV	HGCV1A
7440-02-0	Nickel	0.10	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/11/13	27370	T15657A2	25	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-002	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-04-AOC01	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7440-39-3	Barium	0.25	0.58	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7439-92-1	Lead	0.050	2.4	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/26/13	28440	H15737T	20	CV	HGCV1A
7440-02-0	Nickel	0.10	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/26/13	28440	T15737B2	26	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-003	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7440-39-3	Barium	0.25	0.36	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7439-92-1	Lead	0.050	7.3	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/20/13	27440	H15725T	37	CV	HGCV2A
7440-02-0	Nickel	0.10	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/20/13	27440	T15725B2	27	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-005	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-06-AOC02	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7440-39-3	Barium	0.25	0.42	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7439-92-1	Lead	0.050	2.9	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/26/13	28440	H15737T	23	CV	HGCV1A
7440-02-0	Nickel	0.10	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/26/13	28440	T15737B2	27	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75417-010	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	915239-TP-08-AOC02	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	10/29/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7440-39-3	Barium	0.25	0.28	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7439-92-1	Lead	0.050	0.45	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/20/13	27440	H15725T	38	CV	HGCV2A
7440-02-0	Nickel	0.10	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/20/13	27440	T15725B2	28	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

3102904 0152

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC-V HAMPTONCLARKE VERITECH LABORATORIES

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

3102904 Page 1 of 1

Customer Information

1a) Customer: EA Engineering
Address: 6712 Brooklawn Pkwy, Ste 104 Syracuse, NY 13211
1b) Email/Cell/Fax/Ph: jpeterson@eaest.com
1c) Send Invoice to: James Peterson
1d) Send Report to: James Peterson

Project Information

2a) Project: NYSDEC 55765 River Road
2b) Project Mgr: Robert Casey
2c) Project Location (City/State): Tonawanda, NY
2d) Quote/PO # (If Applicable): 1490721 0002

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other:	PDF
Other:		Other:

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓ Batch # AC5417

Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis Request

<=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	915239-TP-02-AOC01	SL	10/24/13	1010		✓	4								
-002	915239-TP-04-AOC01	SL	10/24/13	1305		✓	2								
-003	915239-TP-06-AOC02-A	SL	10/24/13	1400		✓	2								
-004	915239-TP-06-AOC02-B	OL	10/24/13	1535		✓	2								
-005	915239-TP-06-AOC02-C	SL	10/24/13	1425		✓	2								
-006	915239-TP-06-AOC02-C-MS	SL	10/24/13	1425		✓	2								MS/MSD
-007	915239-TP-06-AOC02-C-MSD	SL	10/24/13	1425		✓	2								MS/MSD
-008	915239-TP-06-AOC02-D	OL	10/24/13	1540		✓	2								
-009	915239-TP-Duplicate-01	SL	10/24/13	—		✓	2								
-010	915239-TP-08-AOC02	SL	10/25/13	0950		✓	2								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	Fed Ex	10/28/13	1600
FEDEX	[signature]	10/29/13	10:30

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-Soil (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.5

Additional Notes

Extract & hold for potential TCLP analysis

11) Sampler (print name): James Peterson Date: 10/28/13

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-001(400uL)
Client Id: TP-16-AOC04
Data File: 1M09283.D
Analysis Date: 11/11/13 12:55
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5.12g:10ml
Final Vol: NA
Dilution: 195
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.28	U	56-23-5	Carbon Tetrachloride	0.28	U
79-34-5	1,1,2,2-Tetrachloroethane	0.28	U	108-90-7	Chlorobenzene	0.28	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.28	U	75-00-3	Chloroethane	0.28	U
79-00-5	1,1,2-Trichloroethane	0.28	U	67-66-3	Chloroform	0.28	U
75-34-3	1,1-Dichloroethane	0.28	U	74-87-3	Chloromethane	0.28	U
75-35-4	1,1-Dichloroethene	0.28	U	156-59-2	cis-1,2-Dichloroethene	0.28	U
87-61-6	1,2,3-Trichlorobenzene	0.28	U	10061-01-5	cis-1,3-Dichloropropene	0.28	U
120-82-1	1,2,4-Trichlorobenzene	0.28	U	110-82-7	Cyclohexane	0.28	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.28	U	124-48-1	Dibromochloromethane	0.28	U
106-93-4	1,2-Dibromoethane	0.28	U	75-71-8	Dichlorodifluoromethane	0.28	U
95-50-1	1,2-Dichlorobenzene	0.28	U	**100-41-4**	**Ethylbenzene**	**0.28**	**6.2**
107-06-2	1,2-Dichloroethane	0.14	U	**98-82-8**	**Isopropylbenzene**	**0.28**	**1.6**
78-87-5	1,2-Dichloropropane	0.28	U	**136777612**	**m&p-Xylenes**	**0.28**	**27**
541-73-1	1,3-Dichlorobenzene	0.28	U	79-20-9	Methyl Acetate	0.28	U
106-46-7	1,4-Dichlorobenzene	0.28	U	**108-87-2**	**Methylcyclohexane**	**0.28**	**2.4**
123-91-1	1,4-Dioxane	14	U	75-09-2	Methylene Chloride	0.28	U
78-93-3	2-Butanone	0.28	U	1634-04-4	Methyl-t-butyl ether	0.14	U
591-78-6	2-Hexanone	0.28	U	**95-47-6**	**o-Xylene**	**0.28**	**14**
108-10-1	4-Methyl-2-Pentanone	0.28	U	100-42-5	Styrene	0.28	U
67-64-1	**Acetone**	**2.8**	**4.9**	127-18-4	Tetrachloroethene	0.28	U
71-43-2	Benzene	0.14	U	108-88-3	Toluene	0.28	U
74-97-5	Bromochloromethane	0.28	U	156-60-5	trans-1,2-Dichloroethene	0.28	U
75-27-4	Bromodichloromethane	0.28	U	10061-02-6	trans-1,3-Dichloropropene	0.28	U
75-25-2	Bromoform	0.28	U	79-01-6	Trichloroethene	0.28	U
74-83-9	Bromomethane	0.28	U	75-69-4	Trichlorofluoromethane	0.28	U
75-15-0	Carbon Disulfide	0.28	U	75-01-4	Vinyl Chloride	0.28	U
1330-20-7	**Xylenes (Total)**	**0.28**	**41**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-001(400uL)
Client Id: TP-16-AOC04
Data File: 1M09283.D
Analysis Date: 11/11/13 12:55
Date Rec/Extracted: 11/01/13-NA

Matrix: Methanol
Extraction Ratio: 5.12g:10ml
Final Vol: NA
Dilution: 195
Solids: 70
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	592-27-8	Heptane, 2-methyl-	5.12	24 J
2	589-81-1	Heptane, 3-methyl-	5.21	16 J
3	111-65-9	Octane	5.46	39 J
4	6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.57	19 J
5	1678-91-7	Cyclohexane, ethyl-	5.91	11 J
6	1678-92-8	Cyclohexane, propyl-	6.75	30 J
7	124-18-5	Decane	7.14	41 J
8	611-14-3	Benzene, 1-ethyl-2-methyl-	7.30	12 J
9	95-63-6	Benzene, 1,2,4-trimethyl-	7.40	24 J
10	526-73-8	Benzene, 1,2,3-trimethyl-	7.67	11 J

Worksheet #: 284173

Total Tentatively Identified Concentration 230

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-002
Client Id: TP-18-AOC04
Data File: 1M09280.D
Analysis Date: 11/11/13 11:42
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 0.99g:10ml
Final Vol: NA
Dilution: 505
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.51	U	56-23-5	Carbon Tetrachloride	0.51	U
79-34-5	1,1,2,2-Tetrachloroethane	0.51	U	108-90-7	Chlorobenzene	0.51	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.51	U	75-00-3	Chloroethane	0.51	U
79-00-5	1,1,2-Trichloroethane	0.51	U	67-66-3	Chloroform	0.51	U
75-34-3	1,1-Dichloroethane	0.51	U	74-87-3	Chloromethane	0.51	U
75-35-4	1,1-Dichloroethene	0.51	U	156-59-2	cis-1,2-Dichloroethene	0.51	U
87-61-6	1,2,3-Trichlorobenzene	0.51	U	10061-01-5	cis-1,3-Dichloropropene	0.51	U
120-82-1	1,2,4-Trichlorobenzene	0.51	U	**110-82-7**	**Cyclohexane**	**0.51**	**12**
96-12-8	1,2-Dibromo-3-Chloropropa	0.51	U	124-48-1	Dibromochloromethane	0.51	U
106-93-4	1,2-Dibromoethane	0.51	U	75-71-8	Dichlorodifluoromethane	0.51	U
95-50-1	1,2-Dichlorobenzene	0.51	U	**100-41-4**	**Ethylbenzene**	**0.51**	**1.8**
107-06-2	1,2-Dichloroethane	0.25	U	**98-82-8**	**Isopropylbenzene**	**0.51**	**0.91**
78-87-5	1,2-Dichloropropane	0.51	U	**136777612**	**m&p-Xylenes**	**0.51**	**80**
541-73-1	1,3-Dichlorobenzene	0.51	U	79-20-9	Methyl Acetate	0.51	U
106-46-7	1,4-Dichlorobenzene	0.51	U	**108-87-2**	**Methylcyclohexane**	**0.51**	**110**
123-91-1	1,4-Dioxane	25	U	75-09-2	Methylene Chloride	0.51	U
78-93-3	2-Butanone	0.51	U	1634-04-4	Methyl-t-butyl ether	0.25	U
591-78-6	2-Hexanone	0.51	U	**95-47-6**	**o-Xylene**	**0.51**	**31**
108-10-1	4-Methyl-2-Pentanone	0.51	U	100-42-5	Styrene	0.51	U
67-64-1	**Acetone**	**5.1**	**7.5**	127-18-4	Tetrachloroethene	0.51	U
71-43-2	Benzene	0.25	U	108-88-3	Toluene	0.51	U
74-97-5	Bromochloromethane	0.51	U	156-60-5	trans-1,2-Dichloroethene	0.51	U
75-27-4	Bromodichloromethane	0.51	U	10061-02-6	trans-1,3-Dichloropropene	0.51	U
75-25-2	Bromoform	0.51	U	79-01-6	Trichloroethene	0.51	U
74-83-9	Bromomethane	0.51	U	75-69-4	Trichlorofluoromethane	0.51	U
75-15-0	Carbon Disulfide	0.51	U	75-01-4	Vinyl Chloride	0.51	U
1330-20-7	**Xylenes (Total)**	**0.51**	**111**				

Worksheet #: 284173

Total Target Concentration 240

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-002
Client Id: TP-18-AOC04
Data File: 1M09280.D
Analysis Date: 11/11/13 11:42
Date Rec/Extracted: 11/01/13-NA

Matrix: Methanol
Extraction Ratio: 0.99g:10ml
Final Vol: NA
Dilution: 505
Solids: 100
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	592-27-8	Heptane, 2-methyl-	5.12	69 J
2	589-81-1	Heptane, 3-methyl-	5.21	50 J
3	111-65-9	Octane	5.46	200 J
4	6876-23-9	Cyclohexane, 1,2-dimethyl-, trans-	5.57	29 J
5	2207-03-6	Cyclohexane, 1,3-dimethyl-, trans-	5.63	17 J
6	1678-91-7	Cyclohexane, ethyl-	5.90	48 J
7		unknown	5.94	27 J
8	3221-61-2	Octane, 2-methyl-	6.06	35 J
9	2216-33-3	Octane, 3-methyl-	6.13	17 J
10	3386-33-2	Octadecane, 1-chloro-	7.14	22 J

Worksheet #: 284173

Total Tentatively Identified Concentration 510

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-003
Client Id: TP-21-AOC04-A
Data File: 1M09291.D
Analysis Date: 11/11/13 15:09
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 1.1g:10ml
Final Vol: NA
Dilution: 455
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.45	U	56-23-5	Carbon Tetrachloride	0.45	U
79-34-5	1,1,2,2-Tetrachloroethane	0.45	U	108-90-7	Chlorobenzene	0.45	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.45	U	75-00-3	Chloroethane	0.45	U
79-00-5	1,1,2-Trichloroethane	0.45	U	67-66-3	Chloroform	0.45	U
75-34-3	1,1-Dichloroethane	0.45	U	74-87-3	Chloromethane	0.45	U
75-35-4	1,1-Dichloroethene	0.45	U	156-59-2	cis-1,2-Dichloroethene	0.45	U
87-61-6	1,2,3-Trichlorobenzene	0.45	U	10061-01-5	cis-1,3-Dichloropropene	0.45	U
120-82-1	1,2,4-Trichlorobenzene	0.45	U	110-82-7	Cyclohexane	0.45	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.45	U	124-48-1	Dibromochloromethane	0.45	U
106-93-4	1,2-Dibromoethane	0.45	U	75-71-8	Dichlorodifluoromethane	0.45	U
95-50-1	1,2-Dichlorobenzene	0.45	U	100-41-4	Ethylbenzene	0.45	U
107-06-2	1,2-Dichloroethane	0.23	U	98-82-8	Isopropylbenzene	0.45	U
78-87-5	1,2-Dichloropropane	0.45	U	136777612	m&p-Xylenes	0.45	U
541-73-1	1,3-Dichlorobenzene	0.45	U	79-20-9	Methyl Acetate	0.45	U
106-46-7	1,4-Dichlorobenzene	0.45	U	108-87-2	Methylcyclohexane	0.45	U
123-91-1	1,4-Dioxane	23	U	75-09-2	Methylene Chloride	0.45	U
78-93-3	2-Butanone	0.45	U	1634-04-4	Methyl-t-butyl ether	0.23	U
591-78-6	2-Hexanone	0.45	U	95-47-6	o-Xylene	0.45	U
108-10-1	4-Methyl-2-Pentanone	0.45	U	100-42-5	Styrene	0.45	U
67-64-1	Acetone	4.5	U	127-18-4	Tetrachloroethene	0.45	U
71-43-2	Benzene	0.23	U	108-88-3	Toluene	0.45	U
74-97-5	Bromochloromethane	0.45	U	156-60-5	trans-1,2-Dichloroethene	0.45	U
75-27-4	Bromodichloromethane	0.45	U	10061-02-6	trans-1,3-Dichloropropene	0.45	U
75-25-2	Bromoform	0.45	U	79-01-6	Trichloroethene	0.45	U
74-83-9	Bromomethane	0.45	U	75-69-4	Trichlorofluoromethane	0.45	U
75-15-0	Carbon Disulfide	0.45	U	75-01-4	Vinyl Chloride	0.45	U
1330-20-7	Xylenes (Total)	0.45	U				

Worksheet #: 284173

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-003
Client Id: TP-21-AOC04-A
Data File: 1M09291.D
Analysis Date: 11/11/13 15:09
Date Rec/Extracted: 11/01/13-NA

Matrix: Methanol
Extraction Ratio: 1.1g:10ml
Final Vol: NA
Dilution: 455
Solids: 100
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	13750-84-0	1H-Imidazole, 2-(diethoxymethyl)-	6.57	1.6 J
2		unknown	6.74	2.8 J
3	6971-40-0	17-Pentatriacontene	7.15	4.9 J
4	2847-72-5	Decane, 4-methyl-	7.32	2.0 J
5	7058-01-7	Cyclohexane, (1-methylpropyl)-	7.55	2.2 J
6		unknown	7.88	3.5 J
7		unknown	8.29	2.6 J
8	934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	8.64	3.3 J
9		unknown	9.17	1.7 J
10	91-57-6	Naphthalene, 2-methyl-	9.82	2.2 J

Worksheet #: 284173

Total Tentatively Identified Concentration 27

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-004(400uL)
Client Id: TP-21-AOC04-B
Data File: 1M09292.D
Analysis Date: 11/11/13 15:25
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Methanol
Extraction Ratio: 5.54g:10ml
Final Vol: NA
Dilution: 181
Solids: 76

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	**1,1,1-Trichloroethane**	**0.24**	**2.9**	56-23-5	Carbon Tetrachloride	0.24	U
79-34-5	1,1,2,2-Tetrachloroethane	0.24	U	108-90-7	Chlorobenzene	0.24	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.24	U	75-00-3	Chloroethane	0.24	U
79-00-5	1,1,2-Trichloroethane	0.24	U	67-66-3	Chloroform	0.24	U
75-34-3	**1,1-Dichloroethane**	**0.24**	**18**	74-87-3	Chloromethane	0.24	U
75-35-4	1,1-Dichloroethene	0.24	U	156-59-2	cis-1,2-Dichloroethene	0.24	U
87-61-6	1,2,3-Trichlorobenzene	0.24	U	10061-01-5	cis-1,3-Dichloropropene	0.24	U
120-82-1	1,2,4-Trichlorobenzene	0.24	U	110-82-7	Cyclohexane	0.24	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.24	U	124-48-1	Dibromochloromethane	0.24	U
106-93-4	1,2-Dibromoethane	0.24	U	75-71-8	Dichlorodifluoromethane	0.24	U
95-50-1	1,2-Dichlorobenzene	0.24	U	100-41-4	Ethylbenzene	0.24	U
107-06-2	**1,2-Dichloroethane**	**0.12**	**0.17**	98-82-8	Isopropylbenzene	0.24	U
78-87-5	1,2-Dichloropropane	0.24	U	136777612	m&p-Xylenes	0.24	U
541-73-1	1,3-Dichlorobenzene	0.24	U	79-20-9	Methyl Acetate	0.24	U
106-46-7	1,4-Dichlorobenzene	0.24	U	108-87-2	Methylcyclohexane	0.24	U
123-91-1	1,4-Dioxane	12	U	75-09-2	Methylene Chloride	0.24	U
78-93-3	**2-Butanone**	**0.24**	**14**	1634-04-4	Methyl-t-butyl ether	0.12	U
591-78-6	2-Hexanone	0.24	U	95-47-6	o-Xylene	0.24	U
108-10-1	4-Methyl-2-Pentanone	0.24	U	100-42-5	Styrene	0.24	U
67-64-1	**Acetone**	**2.4**	**2.4**	127-18-4	Tetrachloroethene	0.24	U
71-43-2	Benzene	0.12	U	108-88-3	Toluene	0.24	U
74-97-5	Bromochloromethane	0.24	U	156-60-5	trans-1,2-Dichloroethene	0.24	U
75-27-4	Bromodichloromethane	0.24	U	10061-02-6	trans-1,3-Dichloropropene	0.24	U
75-25-2	Bromoform	0.24	U	79-01-6	Trichloroethene	0.24	U
74-83-9	Bromomethane	0.24	U	75-69-4	Trichlorofluoromethane	0.24	U
75-15-0	Carbon Disulfide	0.24	U	75-01-4	Vinyl Chloride	0.24	U
1330-20-7	Xylenes (Total)	0.24	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-004(400uL)
Client Id: TP-21-AOC04-B
Data File: 1M09292.D
Analysis Date: 11/11/13 15:25
Date Rec/Extracted: 11/01/13-NA

Matrix: Methanol
Extraction Ratio: 5.54g:10ml
Final Vol: NA
Dilution: 181
Solids: 76
Method: EPA 8260C

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	112-70-9	1-Tridecanol	7.15	0.98 J
2	2847-72-5	Decane, 4-methyl-	7.33	1.1 J
3	55702-62-0	3-CYCLOHEXYL-3-DEUTEROPROP-1-	7.55	1.5 J
4		unknown	7.88	1.6 J
5		unknown	8.29	0.86 J
6	4176-01-6	(-)-CIS-CARANON-(3)	8.42	0.74 J

Worksheet #: 284173

Total Tentatively Identified Concentration 6.8

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-001(10X)
Client Id: TP-16-AOC04
Data File: 7M60921.D
Analysis Date: 11/08/13 01:30
Date Rec/Extracted: 11/01/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 20ml
Dilution: 10
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	19	U	205-99-2	Benzo[b]fluoranthene	19	U
95-94-3	1,2,4,5-Tetrachlorobenzene	19	U	191-24-2	Benzo[g,h,i]perylene	19	U
58-90-2	2,3,4,6-Tetrachlorophenol	19	U	207-08-9	Benzo[k]fluoranthene	19	U
95-95-4	2,4,5-Trichlorophenol	19	U	111-91-1	bis(2-Chloroethoxy)methan	19	U
88-06-2	2,4,6-Trichlorophenol	19	U	111-44-4	bis(2-Chloroethyl)ether	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U	108-60-1	bis(2-chloroisopropyl)ether	19	U
105-67-9	2,4-Dimethylphenol	4.8	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**19**	**25**
51-28-5	2,4-Dinitrophenol	95	U	85-68-7	Butylbenzylphthalate	19	U
121-14-2	2,4-Dinitrotoluene	19	U	105-60-2	Caprolactam	19	U
606-20-2	2,6-Dinitrotoluene	19	U	86-74-8	Carbazole	19	U
91-58-7	2-Chloronaphthalene	19	U	**218-01-9**	**Chrysene**	**19**	**19**
95-57-8	2-Chlorophenol	19	U	53-70-3	Dibenzo[a,h]anthracene	19	U
91-57-6	2-Methylnaphthalene	19	U	132-64-9	Dibenzofuran	4.8	U
95-48-7	2-Methylphenol	4.8	U	84-66-2	Diethylphthalate	19	U
88-74-4	2-Nitroaniline	19	U	131-11-3	Dimethylphthalate	19	U
88-75-5	2-Nitrophenol	19	U	84-74-2	Di-n-butylphthalate	9.6	U
106-44-5	3&4-Methylphenol	4.8	U	117-84-0	Di-n-octylphthalate	19	U
91-94-1	3,3'-Dichlorobenzidine	19	U	**206-44-0**	**Fluoranthene**	**19**	**22**
99-09-2	3-Nitroaniline	19	U	86-73-7	Fluorene	19	U
534-52-1	4,6-Dinitro-2-methylphenol	95	U	118-74-1	Hexachlorobenzene	19	U
101-55-3	4-Bromophenyl-phenylether	19	U	87-68-3	Hexachlorobutadiene	19	U
59-50-7	4-Chloro-3-methylphenol	19	U	77-47-4	Hexachlorocyclopentadiene	19	U
106-47-8	4-Chloroaniline	9.0	U	67-72-1	Hexachloroethane	19	U
7005-72-3	4-Chlorophenyl-phenylether	19	U	193-39-5	Indeno[1,2,3-cd]pyrene	19	U
100-01-6	4-Nitroaniline	19	U	78-59-1	Isophorone	19	U
100-02-7	4-Nitrophenol	19	U	91-20-3	Naphthalene	4.8	U
83-32-9	Acenaphthene	19	U	98-95-3	Nitrobenzene	19	U
208-96-8	Acenaphthylene	19	U	621-64-7	N-Nitroso-di-n-propylamine	4.8	U
98-86-2	Acetophenone	19	U	86-30-6	n-Nitrosodiphenylamine	19	U
120-12-7	Anthracene	19	U	87-86-5	Pentachlorophenol	95	U
1912-24-9	Atrazine	19	U	**85-01-8**	**Phenanthrene**	**19**	**44**
100-52-7	Benzaldehyde	19	U	108-95-2	Phenol	19	U
56-55-3	Benzo[a]anthracene	19	U	**129-00-0**	**Pyrene**	**19**	**34**
50-32-8	Benzo[a]pyrene	19	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-001(10X)
Client Id: TP-16-AOC04
Data File: 7M60921.D
Analysis Date: 11/08/13 01:30
Date Rec/Extracted: 11/01/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 20ml
Dilution: 10
Solids: 70
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	54105-66-7	Cyclohexane, undecyl-	8.05	640 J
2	544-76-3	Hexadecane	8.24	880 J
3	55045-11-9	Tridecane, 5-propyl-	8.47	1300 J
4	629-78-7	Heptadecane	8.71	1400 J
5	1921-70-6	Pentadecane, 2,6,10,14-tetramethyl-	8.75	2000 J
6	629-59-4	Tetradecane	8.92	600 J
7	593-45-3	Octadecane	9.19	1600 J
8	38444-86-9	1,1'-Biphenyl, 2',3,4-trichloro-	9.63	720 J
9	629-92-5	Nonadecane	9.66	1200 J
10	593-45-3	Octadecane	9.85	740 J
11	112-95-8	Eicosane	10.12	950 J
12		unknown	10.33	2500 J
13	1560-93-6	Pentadecane, 2-methyl-	10.46	920 J
14	638-67-5	Tricosane	10.71	670 J
15	629-97-0	Docosane	11.17	1100 J
16	646-31-1	Tetracosane	11.59	970 J
17	7225-64-1	Heptadecane, 9-octyl-	11.99	590 J
18	629-99-2	Pentacosane	12.74	600 J
19	593-45-3	Octadecane	13.10	650 J
20	53584-60-4	28-NOR-17ALPHA(H)-HOPANE	14.46	890 J

Worksheet #: 284165

Total Tentatively Identified Concentration 21000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-002
Client Id: TP-18-AOC04
Data File: 9M53764.D
Analysis Date: 11/07/13 16:08
Date Rec/Extracted: 11/01/13-11/06/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**20**	**21**	205-99-2	Benzo[b]fluoranthene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	20	U	191-24-2	Benzo[g,h,i]perylene	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U	207-08-9	Benzo[k]fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	20	U	111-91-1	bis(2-Chloroethoxy)methan	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	111-44-4	bis(2-Chloroethyl)ether	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U	108-60-1	bis(2-chloroisopropyl)ether	20	U
105-67-9	2,4-Dimethylphenol	5.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	20	U
51-28-5	2,4-Dinitrophenol	100	U	85-68-7	Butylbenzylphthalate	20	U
121-14-2	2,4-Dinitrotoluene	20	U	105-60-2	Caprolactam	20	U
606-20-2	2,6-Dinitrotoluene	20	U	86-74-8	Carbazole	20	U
91-58-7	2-Chloronaphthalene	20	U	**218-01-9**	**Chrysene**	**20**	**25**
95-57-8	2-Chlorophenol	20	U	53-70-3	Dibenzo[a,h]anthracene	20	U
91-57-6	2-Methylnaphthalene	20	U	**132-64-9**	**Dibenzofuran**	**5.0**	**5.5**
95-48-7	2-Methylphenol	5.0	U	84-66-2	Diethylphthalate	20	U
88-74-4	2-Nitroaniline	20	U	131-11-3	Dimethylphthalate	20	U
88-75-5	2-Nitrophenol	20	U	**84-74-2**	**Di-n-butylphthalate**	**10**	**170**
106-44-5	3&4-Methylphenol	5.0	U	117-84-0	Di-n-octylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U	**206-44-0**	**Fluoranthene**	**20**	**35**
99-09-2	3-Nitroaniline	20	U	**86-73-7**	**Fluorene**	**20**	**20**
534-52-1	4,6-Dinitro-2-methylphenol	100	U	118-74-1	Hexachlorobenzene	20	U
101-55-3	4-Bromophenyl-phenylether	20	U	87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U	77-47-4	Hexachlorocyclopentadiene	100	U
106-47-8	4-Chloroaniline	9.5	U	67-72-1	Hexachloroethane	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U	193-39-5	Indeno[1,2,3-cd]pyrene	20	U
100-01-6	4-Nitroaniline	20	U	78-59-1	Isophorone	20	U
100-02-7	4-Nitrophenol	20	U	**91-20-3**	**Naphthalene**	**5.0**	**6.6**
83-32-9	**Acenaphthene**	**20**	**47**	98-95-3	Nitrobenzene	20	U
208-96-8	Acenaphthylene	20	U	621-64-7	N-Nitroso-di-n-propylamine	5.0	U
98-86-2	Acetophenone	20	U	86-30-6	n-Nitrosodiphenylamine	20	U
120-12-7	Anthracene	20	U	87-86-5	Pentachlorophenol	100	U
1912-24-9	Atrazine	20	U	85-01-8	Phenanthrene	20	U
100-52-7	Benzaldehyde	20	U	108-95-2	Phenol	20	U
56-55-3	Benzo[a]anthracene	20	U	**129-00-0**	**Pyrene**	**20**	**40**
50-32-8	Benzo[a]pyrene	20	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-002
Client Id: TP-18-AOC04
Data File: 9M53764.D
Analysis Date: 11/07/13 16:08
Date Rec/Extracted: 11/01/13-11/06/13

Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 1
Solids: 100
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	34883-43-7	1,1'-Biphenyl, 2,4'-dichloro-	9.16	2200 J
2	38444-86-9	1,1'-Biphenyl, 2',3,4-trichloro-	9.54	8500 J
3	38444-86-9	1,1'-Biphenyl, 2',3,4-trichloro-	9.72	3800 J
4	38444-81-4	1,1'-Biphenyl, 2,3',5-trichloro-	10.00	12000 J
5	38444-81-4	1,1'-Biphenyl, 2,3',5-trichloro-	10.09	5500 J
6	55702-46-0	1,1'-Biphenyl, 2,3,4-trichloro-	10.15	4100 J
7	35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	10.31	8000 J
8	52663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrachloro-	10.35	4300 J
9	52663-59-9	1,1'-Biphenyl, 2,2',3,4-tetrachloro-	10.37	3600 J
10	32598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrachloro-	10.50	7600 J
11	35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	10.53	2300 J
12	32598-12-2	1,1'-Biphenyl, 2,4,4',6-tetrachloro-	10.62	12000 J
13	2437-79-8	1,1'-Biphenyl, 2,2',4,4'-tetrachloro-	10.69	3300 J
14	638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	10.76	2700 J
15	35693-99-3	1,1'-Biphenyl, 2,2',5,5'-tetrachloro-	10.85	4900 J
16	33284-54-7	1,1'-Biphenyl, 2,3,5,6-tetrachloro-	10.90	6000 J
17	52663-58-8	1,1'-Biphenyl, 2,3,4',6-tetrachloro-	11.07	9200 J
18	25117-24-2	Tetradecane, 4-methyl-	11.15	2100 J
19	54833-23-7	Eicosane, 10-methyl-	11.92	2300 J
20	7225-64-1	Heptadecane, 9-octyl-	12.32	2600 J

Worksheet #: 284165

Total Tentatively Identified Concentration 110000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-003
Client Id: TP-21-AOC04-A
Data File: 9M53765.D
Analysis Date: 11/07/13 16:31
Date Rec/Extracted: 11/01/13-11/06/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	20	U	205-99-2	Benzo[b]fluoranthene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	20	U	191-24-2	Benzo[g,h,i]perylene	20	U
58-90-2	2,3,4,6-Tetrachlorophenol	20	U	207-08-9	Benzo[k]fluoranthene	20	U
95-95-4	2,4,5-Trichlorophenol	20	U	111-91-1	bis(2-Chloroethoxy)methan	20	U
88-06-2	2,4,6-Trichlorophenol	20	U	111-44-4	bis(2-Chloroethyl)ether	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U	108-60-1	bis(2-chloroisopropyl)ether	20	U
105-67-9	2,4-Dimethylphenol	5.0	U	117-81-7	bis(2-Ethylhexyl)phthalate	20	U
51-28-5	2,4-Dinitrophenol	100	U	85-68-7	Butylbenzylphthalate	20	U
121-14-2	2,4-Dinitrotoluene	20	U	105-60-2	Caprolactam	20	U
606-20-2	2,6-Dinitrotoluene	20	U	86-74-8	Carbazole	20	U
91-58-7	2-Chloronaphthalene	20	U	**218-01-9**	**Chrysene**	**20**	**25**
95-57-8	2-Chlorophenol	20	U	53-70-3	Dibenzo[a,h]anthracene	20	U
91-57-6	2-Methylnaphthalene	20	U	132-64-9	Dibenzofuran	5.0	U
95-48-7	2-Methylphenol	5.0	U	84-66-2	Diethylphthalate	20	U
88-74-4	2-Nitroaniline	20	U	131-11-3	Dimethylphthalate	20	U
88-75-5	2-Nitrophenol	20	U	**84-74-2**	**Di-n-butylphthalate**	**10**	**32**
106-44-5	3&4-Methylphenol	5.0	U	**117-84-0**	**Di-n-octylphthalate**	**20**	**21**
91-94-1	3,3'-Dichlorobenzidine	20	U	**206-44-0**	**Fluoranthene**	**20**	**25**
99-09-2	3-Nitroaniline	20	U	86-73-7	Fluorene	20	U
534-52-1	4,6-Dinitro-2-methylphenol	100	U	118-74-1	Hexachlorobenzene	20	U
101-55-3	4-Bromophenyl-phenylether	20	U	87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-methylphenol	20	U	77-47-4	Hexachlorocyclopentadiene	100	U
106-47-8	4-Chloroaniline	9.5	U	67-72-1	Hexachloroethane	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U	193-39-5	Indeno[1,2,3-cd]pyrene	20	U
100-01-6	4-Nitroaniline	20	U	78-59-1	Isophorone	20	U
100-02-7	4-Nitrophenol	20	U	91-20-3	Naphthalene	5.0	U
83-32-9	Acenaphthene	20	U	98-95-3	Nitrobenzene	20	U
208-96-8	Acenaphthylene	20	U	621-64-7	N-Nitroso-di-n-propylamine	5.0	U
98-86-2	Acetophenone	20	U	86-30-6	n-Nitrosodiphenylamine	20	U
120-12-7	Anthracene	20	U	87-86-5	Pentachlorophenol	100	U
1912-24-9	Atrazine	20	U	**85-01-8**	**Phenanthrene**	**20**	**76**
100-52-7	Benzaldehyde	20	U	108-95-2	Phenol	20	U
56-55-3	Benzo[a]anthracene	20	U	**129-00-0**	**Pyrene**	**20**	**22**
50-32-8	**Benzo[a]pyrene**	**20**	**40**				

Worksheet #: 284165

Total Target Concentration 240

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-003
Client Id: TP-21-AOC04-A
Data File: 9M53765.D
Analysis Date: 11/07/13 16:31
Date Rec/Extracted: 11/01/13-11/06/13

Matrix: Oil/Other
Initial Vol: 0.1g
Final Vol: 1ml
Dilution: 1
Solids: 100
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		unknown	9.92	780 J
2	2097-60-1	Stannane, triethylmethyl-	10.29	1900 J
3		unknown	10.45	870 J
4	20482-11-5	Davanone	10.68	850 J
5	73510-63-1	1-(3,4-Dihydropyrrolo[1',2':3,4]pyrimido	10.74	1200 J
6	3674-66-6	Phenanthrene, 2,5-dimethyl-	10.80	1600 J
7	548-43-6	Elymoclavine	12.12	1600 J
8		unknown	13.34	1100 J
9		unknown	13.95	770 J
10	65012-42-2	8,14-DIHYDROXYDIHYDROTHEBAINE	14.00	750 J
11	60366-21-4	4,2',4"-Trinitro-(para-terphenyl)	14.21	1100 J
12		unknown	14.29	2100 J
13		unknown	14.47	1800 J
14	593-74-8	Mercury, dimethyl-	14.66	1400 J
15		unknown	14.99	6100 J
16		unknown	15.11	1300 J
17	465-11-2	Gamabufotalin	15.36	4300 J
18		unknown	15.59	970 J
19		unknown	15.83	990 J
20		unknown	15.89	1100 J

Worksheet #: 284165

Total Tentatively Identified Concentration 33000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-004(10X)
Client Id: TP-21-AOC04-B
Data File: 7M60920.D
Analysis Date: 11/08/13 01:07
Date Rec/Extracted: 11/01/13-11/07/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Soil
Initial Vol: 30g
Final Vol: 25ml
Dilution: 10
Solids: 76

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	22	U	205-99-2	Benzo[b]fluoranthene	22	U
95-94-3	1,2,4,5-Tetrachlorobenzene	22	U	191-24-2	Benzo[g,h,i]perylene	22	U
58-90-2	2,3,4,6-Tetrachlorophenol	22	U	207-08-9	Benzo[k]fluoranthene	22	U
95-95-4	2,4,5-Trichlorophenol	22	U	111-91-1	bis(2-Chloroethoxy)methan	22	U
88-06-2	2,4,6-Trichlorophenol	22	U	111-44-4	bis(2-Chloroethyl)ether	5.5	U
120-83-2	2,4-Dichlorophenol	5.5	U	108-60-1	bis(2-chloroisopropyl)ether	22	U
105-67-9	2,4-Dimethylphenol	5.5	U	**117-81-7**	**bis(2-Ethylhexyl)phthalate**	**22**	**39**
51-28-5	2,4-Dinitrophenol	110	U	85-68-7	Butylbenzylphthalate	22	U
121-14-2	2,4-Dinitrotoluene	22	U	105-60-2	Caprolactam	22	U
606-20-2	2,6-Dinitrotoluene	22	U	86-74-8	Carbazole	22	U
91-58-7	2-Chloronaphthalene	22	U	218-01-9	Chrysene	22	U
95-57-8	2-Chlorophenol	22	U	53-70-3	Dibenzo[a,h]anthracene	22	U
91-57-6	**2-Methylnaphthalene**	**22**	**46**	132-64-9	Dibenzofuran	5.5	U
95-48-7	2-Methylphenol	5.5	U	84-66-2	Diethylphthalate	22	U
88-74-4	2-Nitroaniline	22	U	131-11-3	Dimethylphthalate	22	U
88-75-5	2-Nitrophenol	22	U	84-74-2	Di-n-butylphthalate	11	U
106-44-5	3&4-Methylphenol	5.5	U	117-84-0	Di-n-octylphthalate	22	U
91-94-1	3,3'-Dichlorobenzidine	22	U	206-44-0	Fluoranthene	22	U
99-09-2	3-Nitroaniline	22	U	**86-73-7**	**Fluorene**	**22**	**31**
534-52-1	4,6-Dinitro-2-methylphenol	110	U	118-74-1	Hexachlorobenzene	22	U
101-55-3	4-Bromophenyl-phenylether	22	U	87-68-3	Hexachlorobutadiene	22	U
59-50-7	4-Chloro-3-methylphenol	22	U	77-47-4	Hexachlorocyclopentadiene	22	U
106-47-8	4-Chloroaniline	10	U	67-72-1	Hexachloroethane	22	U
7005-72-3	4-Chlorophenyl-phenylether	22	U	193-39-5	Indeno[1,2,3-cd]pyrene	22	U
100-01-6	4-Nitroaniline	22	U	78-59-1	Isophorone	22	U
100-02-7	4-Nitrophenol	22	U	**91-20-3**	**Naphthalene**	**5.5**	**13**
83-32-9	Acenaphthene	22	U	98-95-3	Nitrobenzene	22	U
208-96-8	Acenaphthylene	22	U	621-64-7	N-Nitroso-di-n-propylamine	5.5	U
98-86-2	Acetophenone	22	U	86-30-6	n-Nitrosodiphenylamine	22	U
120-12-7	Anthracene	22	U	87-86-5	Pentachlorophenol	110	U
1912-24-9	Atrazine	22	U	**85-01-8**	**Phenanthrene**	**22**	**110**
100-52-7	Benzaldehyde	22	U	108-95-2	Phenol	22	U
56-55-3	Benzo[a]anthracene	22	U	**129-00-0**	**Pyrene**	**22**	**27**
50-32-8	Benzo[a]pyrene	22	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Form1e

ORGANICS SEMIVOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AC75493-004(10X)
Client Id: TP-21-AOC04-B
Data File: 7M60920.D
Analysis Date: 11/08/13 01:07
Date Rec/Extracted: 11/01/13-11/07/13

Matrix: Soil
Initial Vol: 30g
Final Vol: 25ml
Dilution: 10
Solids: 76
Method: EPA 8270D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	629-59-4	Tetradecane	7.31	950 J
2		unknown	7.54	730 J
3	544-76-3	Hexadecane	8.24	2800 J
4	55045-11-9	Tridecane, 5-propyl-	8.47	2200 J
5	4443-55-4	Cyclohexane, eicosyl-	8.55	820 J
6	629-78-7	Heptadecane	8.72	8200 J
7	593-45-3	Octadecane	9.19	3300 J
8	629-50-5	Tridecane	9.40	730 J
9	629-92-5	Nonadecane	9.67	4900 J
10		unknown	9.96	1300 J
11	112-95-8	Eicosane	10.13	2700 J
12	593-45-3	Octadecane	10.31	1300 J
13	544-76-3	Hexadecane	10.47	1200 J
14	544-76-3	Hexadecane	10.58	1400 J
15	822-28-6	Hexadecane, 1-(ethenyloxy)-	10.77	1200 J
16	593-45-3	Octadecane	11.02	830 J
17	7225-64-1	Heptadecane, 9-octyl-	11.17	1200 J
18	55401-55-3	Docosane, 11-decyl-	11.49	740 J
19	638-67-5	Tricosane	11.59	1100 J
20	87538-30-5	(12R,13R,14R)-8,12-13,14-Diepoxy-15-l	14.46	820 J

Worksheet #: 284165

Total Tentatively Identified Concentration 38000

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-001(1000X)
Client Id: TP-16-AOC04
Data File: 3G80528.D
Analysis Date: 11/08/13 13:16
Date Rec/Extracted: 11/01/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 70

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	36	U	11097-69-1	Aroclor-1254	36	U
11104-28-2	Aroclor-1221	36	U	11096-82-5	Aroclor-1260	36	U
11141-16-5	Aroclor-1232	36	U	37324-23-5	Aroclor-1262	36	U
53469-21-9	**Aroclor-1242**	**36**	**2200**	11100-14-4	Aroclor-1268	36	U
12672-29-6	Aroclor-1248	36	U	**1336-36-3**	**Aroclor (Total)**	**36**	**2200**

Worksheet #: 284172

Total Target Concentration 2200

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-002(1000X)
Client Id: TP-18-AOC04
Data File: 2G85722.D
Analysis Date: 11/12/13 12:18
Date Rec/Extracted: 11/01/13-11/06/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 0.1g
Final Vol: 10ml
Dilution: 1000
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5000	U	11097-69-1	Aroclor-1254	5000	U
11104-28-2	Aroclor-1221	5000	U	11096-82-5	Aroclor-1260	5000	U
11141-16-5	Aroclor-1232	5000	U	37324-23-5	Aroclor-1262	5000	U
53469-21-9	**(^)Aroclor-1242**	**5000**	**120000**	11100-14-4	Aroclor-1268	5000	U
12672-29-6	Aroclor-1248	5000	U	**1336-36-3**	**Aroclor (Total)**	**5000**	**120000**

Worksheet #: 284172

Total Target Concentration 120000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-003
Client Id: TP-21-AOC04-A
Data File: 2G85622.D
Analysis Date: 11/07/13 14:07
Date Rec/Extracted: 11/01/13-11/06/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: OIL/OTHER
Initial Vol: 0.1g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	5.0	U	11097-69-1	Aroclor-1254	5.0	U
11104-28-2	Aroclor-1221	5.0	U	11096-82-5	Aroclor-1260	5.0	U
11141-16-5	Aroclor-1232	5.0	U	37324-23-5	Aroclor-1262	5.0	U
53469-21-9	Aroclor-1242	5.0	U	11100-14-4	Aroclor-1268	5.0	U
12672-29-6	Aroclor-1248	5.0	U	1336-36-3	Aroclor (Total)	5.0	U

Worksheet #: 284172

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-004(1000X)
Client Id: TP-21-AOC04-B
Data File: 3G80529.D
Analysis Date: 11/08/13 13:31
Date Rec/Extracted: 11/01/13-11/07/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1000
Solids: 76

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	33	U	11097-69-1	Aroclor-1254	33	U
11104-28-2	Aroclor-1221	33	U	11096-82-5	Aroclor-1260	33	U
11141-16-5	Aroclor-1232	33	U	37324-23-5	Aroclor-1262	33	U
53469-21-9	**Aroclor-1242**	**33**	**1200**	11100-14-4	Aroclor-1268	33	U
12672-29-6	Aroclor-1248	33	U	**1336-36-3**	**Aroclor (Total)**	**33**	**1200**

Worksheet #: 284172

Total Target Concentration 1200

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

FORM1
ORGANICS GC FINGERPRINT REPORT

Lab#: AC75493-002
ClientID: TP-18-AOC04
AnalysisDate: 11/15/2013
Collect_Date: 10/29/2013
Matrix: Oil

TPH-FINGERPRINT GC-FID	RESULT
Diesel/#2 Fuel Oil	No Match
Gasoline	No Match
Hydraulic Oil	No Match
Jet/Kerosene/No.1 Fuel Oil	No Match
Mineral Oil	No Match
Mineral Spirits	No Match
No.3 Fuel Oil	No Match
No.4 Fuel Oil	No Match
No.5 Fuel Oil	No Match
No.6 Fuel Oil	No Match
SAE-10W30 MOTOR OIL	No Match
SAE-10W40 MOTOR OIL	No Match
SAE-20W50 MOTOR OIL	No Match
SAE-30W MOTOR OIL	No Match
SAE-40W MOTOR OIL	No Match
SAE-50W MOTOR OIL	No Match
SAE-5W30 MOTOR OIL	No Match

FORM1
ORGANICS GC FINGERPRINT REPORT

Lab#: AC75493-003
ClientID: TP-21-AOC04-A
AnalysisDate: 11/15/2013
Collect_Date: 10/29/2013
Matrix: Oil

TPH-FINGERPRINT GC-FID	RESULT
Diesel/#2 Fuel Oil	No Match
Gasoline	No Match
Hydraulic Oil	No Match
Jet/Kerosene/No.1 Fuel Oil	No Match
Mineral Oil	No Match
Mineral Spirits	No Match
No.3 Fuel Oil	No Match
No.4 Fuel Oil	No Match
No.5 Fuel Oil	No Match
No.6 Fuel Oil	No Match
SAE-10W30 MOTOR OIL	No Match
SAE-10W40 MOTOR OIL	**Match**
SAE-20W50 MOTOR OIL	No Match
SAE-30W MOTOR OIL	No Match
SAE-40W MOTOR OIL	No Match
SAE-50W MOTOR OIL	No Match
SAE-5W30 MOTOR OIL	No Match

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-001	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	TP-16-AOC04	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	290	590	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7440-36-0	Antimony	5.7	86	1	0.5	50	11/09/13	27384	S15670C3	27	P	PEICP3A
7440-38-2	Arsenic	5.7	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-39-3	Barium	14	3200	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-41-7	Beryllium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-43-9	Cadmium	1.7	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-70-2	Calcium	1400	6700	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7440-47-3	Chromium	7.1	220	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-48-4	Cobalt	3.6	7.6	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-50-8	Copper	7.1	180	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7439-89-6	Iron	290	38000	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7439-92-1	Lead	71	38000	10	0.5	50	11/11/13	27384	S15670E3	37	P	PEICP3A
7439-95-4	Magnesium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7439-96-5	Manganese	14	250	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7439-97-6	Mercury	0.12	2.0	1	0.15	25	11/11/13	27384	H15670S	20	CV	HGCV2A
7440-02-0	Nickel	7.1	21	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-09-7	Potassium	710	ND	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7440-22-4	Silver	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-23-5	Sodium	360	ND	1	0.5	50	11/07/13	27384	S15670B3	23	P	PEICPRAD3A
7440-28-0	Thallium	2.1	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-62-2	Vanadium	14	ND	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A
7440-66-6	Zinc	14	51	1	0.5	50	11/07/13	27384	S15670A3	24	P	PEICP3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-001	% Solid:	70	Lab Name:	Veritech	Nras No:	
Client Id:	TP-16-AOC04	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.9	ND	1	0.5	100	11/06/13	27386	S110613B	34	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-002	% Solid:	100	Lab Name:	Veritech	Nras No:	
Client Id:	TP-18-AOC04	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	310	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-36-0	Antimony	4.0	15	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-38-2	Arsenic	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-39-3	Barium	10	22	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-41-7	Beryllium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-43-9	Cadmium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-70-2	Calcium	1000	1000	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-47-3	Chromium	5.0	140	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-48-4	Cobalt	2.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-50-8	Copper	5.0	41	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7439-89-6	Iron	200	8800	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7439-92-1	Lead	5.0	1000	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7439-95-4	Magnesium	500	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7439-96-5	Manganese	10	100	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7439-97-6	Mercury	0.083	ND	1	0.15	25	11/11/13	27382	H15668Sb	16	CV	HGCV1A
7440-02-0	Nickel	5.0	14	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-09-7	Potassium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	14	P	EICPRAD2OILA
7782-49-2	Selenium	3.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-22-4	Silver	1.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-23-5	Sodium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	14	P	EICPRAD2OILA
7440-28-0	Thallium	2.0	ND	1	0.5	50	11/12/13	27382	IL15668D2	22	P	PEICP2OILA
7440-62-2	Vanadium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA
7440-66-6	Zinc	20	87	1	0.5	50	11/11/13	27382	IL15668A2	14	P	PEICP2OILA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-003	% Solid:	100	Lab Name:	Veritech	Nras No:	
Client Id:	TP-21-AOC04-A	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-36-0	Antimony	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-38-2	Arsenic	4.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-39-3	Barium	10	17	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-41-7	Beryllium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-43-9	Cadmium	1.2	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-70-2	Calcium	1000	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-47-3	Chromium	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-48-4	Cobalt	2.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-50-8	Copper	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7439-89-6	Iron	200	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7439-92-1	Lead	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7439-95-4	Magnesium	500	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7439-96-5	Manganese	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7439-97-6	Mercury	0.083	ND	1	0.15	25	11/11/13	27382	H15668Sb	20	CV	HGCV1A
7440-02-0	Nickel	5.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-09-7	Potassium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	23	P	EICPRAD2OILA
7782-49-2	Selenium	3.0	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-22-4	Silver	1.5	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-23-5	Sodium	500	ND	1	0.5	50	11/12/13	27382	IL15668C2	23	P	EICPRAD2OILA
7440-28-0	Thallium	2.0	ND	1	0.5	50	11/12/13	27382	IL15668D2	14	P	PEICP2OILA
7440-62-2	Vanadium	10	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA
7440-66-6	Zinc	20	ND	1	0.5	50	11/11/13	27382	IL15668A2	23	P	PEICP2OILA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-004	% Solid:	76	Lab Name:	Veritech	Nras No:	
Client Id:	TP-21-AOC04-B	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	260	900	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7440-36-0	Antimony	5.3	18	1	0.5	50	11/09/13	27384	S15670C3	28	P	PEICP3A
7440-38-2	Arsenic	5.3	ND	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-39-3	Barium	13	3900	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-41-7	Beryllium	1.6	ND	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-43-9	Cadmium	1.6	ND	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-70-2	Calcium	1300	2700	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7440-47-3	Chromium	6.6	83	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-48-4	Cobalt	3.3	4.2	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-50-8	Copper	6.6	520	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7439-89-6	Iron	260	3900	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7439-92-1	Lead	33	11000	5	0.5	50	11/11/13	27384	S15670E3	41	P	PEICP3A
7439-95-4	Magnesium	660	ND	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7439-96-5	Manganese	13	51	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7439-97-6	Mercury	0.11	1.8	1	0.15	25	11/11/13	27384	H15670S	23	CV	HGCV2A
7440-02-0	Nickel	6.6	10	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-09-7	Potassium	660	ND	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7440-22-4	Silver	2.0	3.2	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-23-5	Sodium	330	ND	1	0.5	50	11/07/13	27384	S15670B3	24	P	PEICPRAD3A
7440-28-0	Thallium	2.0	ND	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-62-2	Vanadium	13	ND	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A
7440-66-6	Zinc	13	150	1	0.5	50	11/07/13	27384	S15670A3	25	P	PEICP3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-004	% Solid:	76	Lab Name:	Veritech	Nras No:	
Client Id:	TP-21-AOC04-B	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7782-49-2	Selenium	2.6	ND	1	0.5	100	11/06/13	27386	S110613B	35	MS	MS2_7500SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-001(T)
Client Id: TP-16-AOC04
Data File: 1M09219.D
Analysis Date: 11/08/13 11:55
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0010	U	108-90-7	Chlorobenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.00050	U	67-66-3	Chloroform	0.0010	U
106-46-7	1,4-Dichlorobenzene	0.0010	U	127-18-4	Tetrachloroethene	0.0010	U
78-93-3	**2-Butanone**	**0.0010**	**0.015**	79-01-6	Trichloroethene	0.0010	U
71-43-2	**Benzene**	**0.00050**	**0.00092**	75-01-4	Vinyl Chloride	0.0010	U
56-23-5	Carbon Tetrachloride	0.0010	U				

Worksheet #: 285073

Total Target Concentration 0.016

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC75493-004(5X)(T)
Client Id: TP-21-AOC04-B
Data File: 1M09234.D
Analysis Date: 11/08/13 16:06
Date Rec/Extracted: 11/01/13-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 5.00
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
75-35-4	1,1-Dichloroethene	0.0050	U	108-90-7	Chlorobenzene	0.0050	U
107-06-2	**1,2-Dichloroethane**	**0.0025**	**0.0056**	67-66-3	Chloroform	0.0050	U
106-46-7	1,4-Dichlorobenzene	0.0050	U	127-18-4	Tetrachloroethene	0.0050	U
78-93-3	**2-Butanone**	**0.0050**	**0.63**	79-01-6	Trichloroethene	0.0050	U
71-43-2	Benzene	0.0025	U	75-01-4	Vinyl Chloride	0.0050	U
56-23-5	Carbon Tetrachloride	0.0050	U				

Worksheet #: 285073

Total Target Concentration 0.64

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-001(5X)(T)
Client Id: TP-16-AOC04
Data File: 10M41112.D
Analysis Date: 11/12/13 14:10
Date Rec/Extracted: 11/01/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 3.5ml
Dilution: 5
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.14	U	87-68-3	Hexachlorobutadiene	0.14	U
88-06-2	2,4,6-Trichlorophenol	0.14	U	67-72-1	Hexachloroethane	0.14	U
121-14-2	2,4-Dinitrotoluene	0.14	U	98-95-3	Nitrobenzene	0.14	U
95-48-7	2-Methylphenol	0.035	U	87-86-5	Pentachlorophenol	0.70	U
106-44-5	3&4-Methylphenol	0.035	U	110-86-1	Pyridine	0.70	U
118-74-1	Hexachlorobenzene	0.14	U				

Worksheet #: 284781

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AC75493-004(5X)(T)
Client Id: TP-21-AOC04-B
Data File: 10M41090.D
Analysis Date: 11/11/13 20:47
Date Rec/Extracted: 11/01/13-11/11/13
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 250ml
Final Vol: 2.5ml
Dilution: 5
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-95-4	2,4,5-Trichlorophenol	0.10	U	87-68-3	Hexachlorobutadiene	0.10	U
88-06-2	2,4,6-Trichlorophenol	0.10	U	67-72-1	Hexachloroethane	0.10	U
121-14-2	2,4-Dinitrotoluene	0.10	U	98-95-3	Nitrobenzene	0.10	U
95-48-7	2-Methylphenol	0.025	U	87-86-5	Pentachlorophenol	0.50	U
106-44-5	**3&4-Methylphenol**	**0.025**	**0.11**	110-86-1	Pyridine	0.50	U
118-74-1	Hexachlorobenzene	0.10	U				

Worksheet #: 284781

Total Target Concentration 0.11

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-001(100X)(T)
Client Id: TP-16-AOC04
Data File: 2G85837.D
Analysis Date: 11/14/13 21:29
Date Rec/Extracted: 11/01/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 100
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	**(^)Aroclor-1242**	**0.25**	**14**	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**14**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS PCB REPORT

Sample Number: AC75493-004(1000X)(T
Client Id: TP-21-AOC04-B
Data File: 3G80782.D
Analysis Date: 11/15/13 23:23
Date Rec/Extracted: 11/01/13-11/11/13
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 100ml
Final Vol: 5ml
Dilution: 1000
Solids: 0

Units: mg/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	2.5	U	11097-69-1	Aroclor-1254	2.5	U
11104-28-2	Aroclor-1221	2.5	U	11096-82-5	Aroclor-1260	2.5	U
11141-16-5	Aroclor-1232	2.5	U	37324-23-5	Aroclor-1262	2.5	U
53469-21-9	**(^)Aroclor-1242**	**2.5**	**41**	11100-14-4	Aroclor-1268	2.5	U
12672-29-6	Aroclor-1248	2.5	U	**1336-36-3**	**Aroclor (Total)**	**2.5**	**41**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-001	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	TP-16-AOC04	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7440-39-3	Barium	0.25	0.55	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7439-92-1	Lead	0.050	2.3	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/20/13	27440	H15725T	35	CV	HGCV2A
7440-02-0	Nickel	0.10	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/20/13	27440	T15725B2	25	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AC75493-004	% Solid:	0	Lab Name:	Veritech	Nras No:	
Client Id:	TP-21-AOC04-B	Units:	MG/L	Lab Code:		Sdg No:	
Matrix:	TCLP	Date Rec:	11/1/2013	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-38-2	Arsenic	0.10	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7440-39-3	Barium	0.25	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7440-43-9	Cadmium	0.050	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7440-47-3	Chromium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7439-92-1	Lead	0.050	1.9	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7439-97-6	Mercury	0.00070	ND	1	25	25	11/20/13	27440	H15725T	36	CV	HGCV2A
7440-02-0	Nickel	0.10	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7782-49-2	Selenium	0.10	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A
7440-22-4	Silver	0.050	ND	1	50	50	11/20/13	27440	T15725B2	26	P	PEICP2A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3110102**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AC75493-001	TP-16-AOC04	Sludge	1	70	Percent			11/03/13	11/01/13	10/29/13
AC75493-004	TP-21-AOC04-B	Sludge	1	76	Percent			11/03/13	11/01/13	10/30/13

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
HC-V HamptonClarke Veritech Laboratories
A Women-Owned, Disadvantaged, Small Business Enterprise
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 311010 2

311010 2 0069

Customer Information

1a) Customer: EA Engineering
Address: 6712 Brooklawn Pkwy, Ste 104
Syracuse, NY 13211
1b) Email/Cell/Fax/Ph: jpeterson@eaest.com
1c) Send Invoice to: James Peterson
1d) Send Report to: James Peterson

Project Information

2a) Project: NYSDEC SS565 River Road
2b) Project Mgr: Bob Casey
2c) Project Location (City/State): Tonawanda, NY
2d) Quote/PO # (If Applicable): 1490721 0002

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other:	PDF
Other:		Other:

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # ACT5493

Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis Request

<=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOC 8260B	SVOC 8270C	PCB 8082	TAL Metals 6010B	Mercury 7470	EPA 8015	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	TP-16-AOC04	SL	10/29/13	0815		✓	✓	✓	✓	✓	✓		2								
-002	TP-18-AOC04	SL	10/29/13	0935		✓	✓	✓	✓	✓	✓		2								
-003	TP-21-AOC04-A	OL	10/29/13	1540		✓	✓	✓	✓	✓	✓	✓	2								
-004	TP-21-AOC04-B	SL	10/30/13	0930		✓	✓	✓	✓	✓	✓		2								

10) Relinquished by:	Accepted by:	Date	Time
James Peterson	FedEx	10/31/13	1637
FEDEX	Mexwell	11/1/13	9:20

Additional Notes
Extract and hold for potential TCLP analysis.

Comments, Notes, Special Requirements, HAZARDS
Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-**Soil** (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ **Project-Specific Reporting Limits**
- ☐ **High Contaminant Concentrations**
- ☐ **NJ LSRP Project**

Cooler Temperature: 2.6

11) Sampler (print name): James Peterson Date: 10/31/13

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-67949-1
Client Project/Site: NYSDEC - 5565 River Rd: Site# 915239

For
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Glenn May

Joseph V. Giacomazza

Authorized for release by:
10/10/2014 12:31:24 PM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Joe Giacomazza
Project Management Assistant II
10/10/2014 12:31:24 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-67949-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-67949-1

Receipt
The samples were received on 9/24/2014 11:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch recovered above the upper control limit for 2-Hexanone, Vinyl Chloride, Chloromethane, 4-Methyl-2-Pentanone, Trichlorofluoromethane, and 2-Butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-206003/9).

Method(s) 8260C: The laboratory control sample (LCS) for batch 206003 recovered outside control limits for the following analyte: Chloromethane. This was not a requested spike compound; therefore, the data have been qualified and reported.

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: BFC ROLLOFF (480-67949-1).

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: BFC ROLLOFF (480-67949-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: BFC ROLLOFF (480-67949-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: BFC ROLLOFF

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.1		4.0	3.3	ug/L			10/04/14 05:12	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/04/14 05:12	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/04/14 05:12	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/04/14 05:12	4
1,1-Dichloroethane	8.1		4.0	1.5	ug/L			10/04/14 05:12	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/04/14 05:12	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/04/14 05:12	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/04/14 05:12	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/04/14 05:12	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/04/14 05:12	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/04/14 05:12	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/04/14 05:12	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/04/14 05:12	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/04/14 05:12	4
2-Butanone (MEK)	ND		40	5.3	ug/L			10/04/14 05:12	4
2-Hexanone	ND		20	5.0	ug/L			10/04/14 05:12	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/04/14 05:12	4
Acetone	ND		40	12	ug/L			10/04/14 05:12	4
Benzene	ND		4.0	1.6	ug/L			10/04/14 05:12	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/04/14 05:12	4
Bromoform	ND		4.0	1.0	ug/L			10/04/14 05:12	4
Bromomethane	ND		4.0	2.8	ug/L			10/04/14 05:12	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/04/14 05:12	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/04/14 05:12	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/04/14 05:12	4
Chloroethane	ND		4.0	1.3	ug/L			10/04/14 05:12	4
Chloroform	ND		4.0	1.4	ug/L			10/04/14 05:12	4
Chloromethane	ND	*	4.0	1.4	ug/L			10/04/14 05:12	4
cis-1,2-Dichloroethene	5.1		4.0	3.2	ug/L			10/04/14 05:12	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/04/14 05:12	4
Cyclohexane	ND		4.0	0.72	ug/L			10/04/14 05:12	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/04/14 05:12	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/04/14 05:12	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/04/14 05:12	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/04/14 05:12	4
Methyl acetate	ND		10	2.0	ug/L			10/04/14 05:12	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/04/14 05:12	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/04/14 05:12	4
Methylene Chloride	ND		4.0	1.8	ug/L			10/04/14 05:12	4
Styrene	ND		4.0	2.9	ug/L			10/04/14 05:12	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/04/14 05:12	4
Toluene	ND		4.0	2.0	ug/L			10/04/14 05:12	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/04/14 05:12	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/04/14 05:12	4
Trichloroethene	2.4	J	4.0	1.8	ug/L			10/04/14 05:12	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/04/14 05:12	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/04/14 05:12	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/04/14 05:12	4

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: BFC ROLLOFF
Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		66 - 137		10/04/14 05:12	4
4-Bromofluorobenzene (Surr)	101		73 - 120		10/04/14 05:12	4
Toluene-d8 (Surr)	109		71 - 126		10/04/14 05:12	4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	7.0	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1221	ND		20	7.0	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1232	ND		20	7.0	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1242	ND		20	7.0	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1248	160		20	7.0	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1254	ND		20	10	ug/L		09/25/14 09:06	09/26/14 05:12	40
PCB-1260	ND		20	10	ug/L		09/25/14 09:06	09/26/14 05:12	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		19 - 126	09/25/14 09:06	09/26/14 05:12	40
DCB Decachlorobiphenyl	53		19 - 126	09/25/14 09:06	09/26/14 05:12	40
Tetrachloro-m-xylene	89		23 - 127	09/25/14 09:06	09/26/14 05:12	40
Tetrachloro-m-xylene	704	X	23 - 127	09/25/14 09:06	09/26/14 05:12	40

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: SB1160-SIDE
Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-2
Matrix: Wipe

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1221	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1232	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1242	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1248	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1254	0.40	J	1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1
PCB-1260	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:24*	*1*
Tetrachloro-m-xylene	*109*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:24*	*1*
DCB Decachlorobiphenyl	*96*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:24*	*1*
DCB Decachlorobiphenyl	*93*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:24*	*1*

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: SB1160-B
Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-3
Matrix: Wipe

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1221	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1232	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1242	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1248	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1254	0.42	J	1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1
PCB-1260	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:40*	*1*
Tetrachloro-m-xylene	*97*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:40*	*1*
DCB Decachlorobiphenyl	*90*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:40*	*1*
DCB Decachlorobiphenyl	*89*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:40*	*1*

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: SB1159-SIDE
Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-4
Matrix: Wipe

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1221	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1232	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1242	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1248	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1254	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1
PCB-1260	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/25/14 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:56*	*1*
Tetrachloro-m-xylene	*106*		*57 - 173*	*09/25/14 07:43*	*09/25/14 23:56*	*1*
DCB Decachlorobiphenyl	*92*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:56*	*1*
DCB Decachlorobiphenyl	*90*		*59 - 171*	*09/25/14 07:43*	*09/25/14 23:56*	*1*

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd. Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: SB1159-B
Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-5
Matrix: Wipe

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1221	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1232	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1242	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1248	ND		1.0	0.18	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1254	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1
PCB-1260	ND		1.0	0.25	ug/Wipe		09/25/14 07:43	09/26/14 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*57 - 173*	*09/25/14 07:43*	*09/26/14 00:12*	*1*
Tetrachloro-m-xylene	*96*		*57 - 173*	*09/25/14 07:43*	*09/26/14 00:12*	*1*
DCB Decachlorobiphenyl	*89*		*59 - 171*	*09/25/14 07:43*	*09/26/14 00:12*	*1*
DCB Decachlorobiphenyl	*87*		*59 - 171*	*09/25/14 07:43*	*09/26/14 00:12*	*1*

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd Site# 915239

TestAmerica Job ID: 480-67949-1

Client Sample ID: BFC ROLLOFF

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	206003	10/04/14 05:12	EDB	TAL BUF
Total/NA	Prep	3510C			204292	09/25/14 09:06	TRG	TAL BUF
Total/NA	Analysis	8082A		40	204256	09/26/14 05:12	DLE	TAL BUF

Client Sample ID: SB1160-SIDE

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-2
Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204268	09/25/14 07:43	JLS	TAL BUF
Total/NA	Analysis	8082A		1	204256	09/25/14 23:24	DLE	TAL BUF

Client Sample ID: SB1160-B

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-3
Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204268	09/25/14 07:43	JLS	TAL BUF
Total/NA	Analysis	8082A		1	204256	09/25/14 23:40	DLE	TAL BUF

Client Sample ID: SB1159-SIDE

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-4
Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204268	09/25/14 07:43	JLS	TAL BUF
Total/NA	Analysis	8082A		1	204256	09/25/14 23:56	DLE	TAL BUF

Client Sample ID: SB1159-B

Date Collected: 09/22/14 00:00
Date Received: 09/24/14 11:20

Lab Sample ID: 480-67949-5
Matrix: Wipe

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			204268	09/25/14 07:43	JLS	TAL BUF
Total/NA	Analysis	8082A		1	204256	09/26/14 00:12	DLE	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

Method Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - 5565 River Rd: Site# 915239

TestAmerica Job ID: 480-67949-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-67949-1	BFC ROLLOFF	Water	09/22/14 00:00	09/24/14 11:20
480-67949-2	SB1160-SIDE	Wipe	09/22/14 00:00	09/24/14 11:20
480-67949-3	SB1160-B	Wipe	09/22/14 00:00	09/24/14 11:20
480-67949-4	SB1159-SIDE	Wipe	09/22/14 00:00	09/24/14 11:20
480-67949-5	SB1159-B	Wipe	09/22/14 00:00	09/24/14 11:20

Chain of Custody Re

480-67949 Chain of Custody

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Mys Dec Reg #9	Project Manager: Dena May			Date: 9-23-14	Chain of Custody Number: 219989
Address: 270 Michigan Ave	Telephone Number (Area Code)/Fax Number: 716-851-7220			Lab Number: 2014-236	Page 1 of 1
City: Buffalo	State: Ny	Zip Code: 14203	Site Contact: G. May	Lab Contact:	
Project Name and Location (State): 5565 River Rd Tona, Ny			Carrier/Waybill Number: FD900458		
Contract/Purchase Order/Quote No.					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	W	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Volatiles	PCB's	Special Instructions/ Conditions of Receipt
Bfe Rolloff	9/22/14			X				↑			2			X	X	
SB 1160-Side							X								X	
SB 1160-B							X								X	
SB 1159-Side							X								X	
SB 1159-B							X								X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Linda Scott	9/24/14	11:20	1. Received By: TA BUFF	9/24/14	11:20
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments

#2 38

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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10/10/2014

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-67949-1

Login Number: 67949
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	DEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	