Groundwater & Environmental Services, Inc.

300 Gateway Park Drive • North Syracuse, New York 13212 • (800) 220-3069 • (315) 452-3237

May 8, 2014

Mr. Eric Hausamann
New York State Department of Environmental Conservation
Remedial Bureau E, Section B
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7017

RE: Operable Unit One Pilot Test Summary
Former Air Force Plant 51
4777 Dewey Avenue
Greece, New York
NYSDEC Site #828156

Dear Mr. Hausamann:

Groundwater & Environmental Services, Inc. (GES), on behalf the New York State Department of Environmental Conservation (NYSDEC), has prepared the enclosed report summarizing the In-Situ Chemical Oxidation (ISCO) pilot testing that was conducted in September 2013 at the Former Air Force Plant 51 facility, located at 4777 Dewey Avenue, Greece, New York. The testing was completed within Operable Unit 1 Area of Concern 1 and the area down gradient of AOC1. These areas are defined as Pilot Test Area #1 and Pilot Test Area #2 respectively in the *July 15, 2013 ISCO Pilot Test Work Plan.*

Should you have any questions or concerns please feel free to contact GES at (800) 220-3069.

Sincerely,
GROUNDWATER & ENVIROMENTAL SERVICES, INC.

For
Scott McDonald
Staff Geologist

Justin Domago
Project Manager

Enclosure

Cc: Michael Musso HDR Inc.

Pilot Test Summary Report

Former Air Force Plant 51
4777 Dewey Avenue
Town of Greece, New York
NYSDEC Site # 828156

Prepared for:

Mr. Eric Hausamann
New York State Department of Environmental Conservation
Remedial Bureau E, Section B
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Prepared by:

Groundwater & Environmental Services, Inc.
300 Gateway Park Drive
North Syracuse, New York 13212

May 8, 2014

For

Matthew Crance
Associate Engineer

For

Scott McDonald
Staff Geologist

Justin Domago
Project Manager

Pilot Test Summary Report

Former Air Force Plant 51
4777 Dewey Avenue, Greece
Town of Greece, New York

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1.0 INTRODUCTION

Groundwater & Environmental Services, Inc. (GES) has prepared this Pilot Test Summary on behalf the New York State Department of Environmental Conservation (NYSDEC) for the Former Air Force Plant 51 facility located at 4777 Dewey Avenue, Greece, New York (the Site). The report details the results of the In-Situ Chemical Oxidation (ISCO) pilot testing completed in September 2013 within Operable Unit 1 (OU1) Area of Concern 1 (AOC1) and the area down gradient of AOC1. These areas are defined as Pilot Test Area #1 (PT-Area #1) and Pilot Test Area #2 (PT-Area #2) respectively. The testing included the evaluation of ISCO technology using hydrogen peroxide (H_2O_2) and sodium permanganate as the liquid oxidants. The scope of the testing was outlined in the *July 15, 2013 ISCO Pilot Test Work Plan (July 2013 Work Plan),* which was approved by the NYSDEC on July 17. 2013.

2.0 PILOT TEST WELL INSTALLATION

Starting on July 22, 2013, GES was onsite with its drilling subcontractor Parratt Wolff of East Syracuse, NY to complete the installation of the pilot test wells as outlined in the *July 2013 Work Plan*. This installation included a total of eight new wells; four in PT-Area #1 and four in PT-Area #2. The approximate locations of the test areas and the completed wells are shown on **Figure 1.** Prior to the start of drilling activates each location was pre-cleared to 5 feet below grade (ftbg) using an air knife and vacuum unit prior to advancing drilling tools.

2.1 Soil Sampling

Each borehole was continually sampled in two-foot intervals with a split spoon to the termination depth. Each soil sample was then screened using a Photoionization Detector (PID) for the presence of volatile organic compounds (VOCs) and classified using a modified Burmister Soil Classification system for color, grain size and moisture content. Detail of the field information collected is presented on the Subsurface Logs included as **Appendix I**. One soil sample was selected from each location and submitted to Test America Buffalo (Test America) located in Amherst, NY. These samples were analyzed for the chemicals of concern (COCs), the EPA target analyte listed (TAL) metals and total organic carbon (TOC). The primary COCs are TCE and related degradation products. The analytical results from these samples are presented on **Table 1** and **Table 2** with the results portion of the laboratory analytical included in **Appendix II**.

2.2 Well Construction

The four wells installed in PT-Area #1 included two pairs of nested HypeAir® injection wells (IP-1, IP-2) and two soil vapor extraction (SVE) wells (SVE-1, SVE-2). The four wells installed in the PT-Area #2 included two sodium permanganate injection points (IP-2 and IP-4) and two monitoring points (MP-1 and MP-2). The final vertical screen interval for the injection well screens was based on field observations and screening results of the soils during the advancement of each borehole. The eight wells were constructed as described in the *July 2013 Work Plan*. Details of the final depths and construction of each well is presented on the Subsurface Logs included as **Appendix I**.

2.3 Well Development

Following installation of the above wells, each was developed by hand in order to ensure proper communication between the well and the aquifer material. The wells were manually surged with a surge block and pumped to remove sediment laden water. This was continued until the water generated from the wells was relatively clear. Purge water generated during the well development activities was placed in 55-gallon drums and staged onsite for later disposal by the NYSDEC.

2.4 Groundwater Sampling

On August 30, 2013, GES was onsite to collect the initial baseline groundwater samples from the newly installed SVE and MP wells. These samples were submitted to Test America for laboratory analysis of the COCs, along with total and dissolved TAL metals and total alkalinity. The results of these initial groundwater sampling results are summarized on **Table 3** and **Table 4** with the laboratory analytical reports, results only included as **Appendix II**.

3.0 REMEDIAL PILOT TESTING

From September 9 through September 13, 2013, GES conducted remedial feasibility pilot testing at the Site as outlined in the approved Work Plan. The test was conducted in areas that have been defined as PT-Area #1 and PT-Area #2 using a different oxidant source for each area. The following sections present an overview of each pilot test, the results, and a summary of findings.

3.1 Remedial Pilot Testing (Pilot Test Area #1)

On September 9, and 10, 2013, GES conducted pilot testing in PT-Area #1 using hydrogen peroxide, EDTA (ethylenediaminetetraacetic) iron, and ozone. GES utilized their Data Acquisitioning and Processing Laboratory (DAPL) unit as the injection vehicle and their HypeAir process for this test. The testing was conducted using the following wells:

Chemical and Ozone Injection Wells (Planned):	IP-1 and IP-2
Monitoring/Observation Wells:	SVE-1, SVE-2, MW1-4, MW1-5, MW1-8, MW1-11, MW1-12, MW1-13, MW1-14, MW1-16 and MW1-18

The three principal objectives of this test were to: 1) evaluate the effectiveness of ISCO using hydrogen peroxide; 2) determine the ISCO Radius of Influence (ROI) using hydrogen peroxide; and 3) measure the injection flow rate, pressure, and other data to design a full scale ISCO injection process utilizing hydrogen peroxide.

Field instruments were used to collect groundwater chemistry readings including depth to water (DTW), pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), and conductivity during the event. Field headspace readings from inside each well were also collected and logged for total volatiles, percent of lower explosive limit, percent oxygen, carbon dioxide concentration and hydrogen sulfide concentration. Hydrogen peroxide concentrations in groundwater were monitored in each well using CHEMetrics CHEMets® self-filling ampoules for colorimetric analysis for hydrogen peroxide with a range of 0-.5 ppm.

The planned feasibility testing as outlined in the *July 2013 Workplan* included injections of hydrogen peroxide in increasing concentrations from 10% through 15%. The testing began with the successful introduction of 50 gallons of 2% EDTA Iron solution into the subsurface at IP-2 through gravity feed. GES began to inject 10% H_2O_2 and Ozone into IP-2. After a small volume of the liquid solution had been injected, surface breakthrough or "daylighting" of chemicals began to occur. The ozone injection was shut off to see if this would decrease the reaction rate of the H_2O_2 and stop the daylighting. This change did not improve the occurrence of the daylighting and after 20 gallons of the solution had been injected, the entire test on IP-2 was terminated.

Soil Vapor Extraction was applied at wells SVE-1 and SVE-2 prior to and during the start of the injection. The SVE was terminated during the initial injection in order to protect the SVE equipment when hydrogen peroxide was observed in the SVE suction lines. Upon further evaluation, it was discovered that the injection at IP-2 had pushed the liquid solution through the subsurface into the SVE well screens.

At this time, the pilot test scope was modified and the field crew attempted to inject only 10% H_2O_2 into most of the wells in PT-Area #1 to better understand the subsurface conditions and see if any of the newly installed or preexisting wells would accept the liquid solution. These injections were completed at IP-1, IW-1 through IW-9, VW-1 through VW-4, MW1-13, MW1-14 and the ozone screens at IP-1 and IP-2. An injection was not attempted at MW-1-12 due to the presence of Dense Non-Aqueous Phase Liquid Hydrocarbons (DNAPL) in the monitoring well however, hydrogen peroxide was observed in MW1-12 from injections in the surrounding wells. The results of these injections resulted in the following:

- The well would not accept the liquid solution
- Daylighting occurred at the same locations as when the solution was injected into IP-2.
- Daylighting occurred at new locations in the ground surface.

Injection of a 15% hydrogen peroxide solution was not attempted based on the daylighting that occurred with the injection of the lower 10% concentration. Due to the early termination of the ozone injection and SVE, there was not sufficient data collected from these processes to conduct an evaluation of them.

Following the additional hydrogen peroxide injections, the field crew completed water injections at IP-1 and IP-2 to gather additional data that could be useful in determining if the subsurface could potentially accept other less reactive liquids. The result of these injections was daylighting of the water in the same locations as during the injection of the 10% H_2O_2.

The following is a summary of the pilot injections that were completed in PT-Area #1. Pre-test and post-test field groundwater chemistry data are summarized on **Table 5**.

2% EDTA Iron Injection

Well	Result During 2% EDTA Iron Injection	Total Gallons
IP-2	Gravity Feed, Successful	50 Gallons

10% Hydrogen Peroxide Injection

Well	Result During 10% H2O2 Injection	(Total Gallons) September 9th	(Total Gallons) September 10th
IP-1	Daylighting 10 ft to the NW	50	~
IP-2	Daylighting 7 ft to the NE	20	~
IW-1	Daylighting through SVE-2	28	~
IW-2	Daylighting right around well casing	13	~
IW-3	Daylighting at same location as IP-1	~	20
IW-4	Slight Daylighting around well	50	40
IW-5	No Flow	~	~
IW-6	Daylighting around well pad of IP-2	~	21
IW-7	No Flow	~	~
IW-8	No Flow	~	~
IW-9	No Flow	~	~
OP-1	Ozone Screen at IP-1, Daylighting at same location as IP-1	~	29
OP-2	Ozone Screen at IP-1, Daylighting at same location as IP-2	~	34
VW-1	Daylighting around well	~	50
VW-2	No Flow	~	~
VW-3	Daylighting around well	~	8
VW-4	Daylighting around well	~	4
MW1-13	Gravity Feed Only, well topped off	~	12
MW1-14	Gravity Feed Only, well topped off	~	30
Total Gallons Injected-		**409**	

Water Injection

Well	Flow (GPM)	Pressure (PSI)	Status and Total Gallons Injected
IP-1	1	0	Daylighting at same location as H2O2 after ~40 gallons
IP-2	1	0	Daylighting at same location as peroxide after ~35 gallons

% = percent ~ = not applicable gal = gallons H_2O_2 = hydrogen peroxide psi - pounds per square inch

3.1.1 Summary of Pilot Test Findings (Pilot Test Area #1)

The first objective of this test was to evaluate the effectiveness of ISCO technology using hydrogen peroxide. As mentioned above, daylighting occurred during the attempts to inject into the above listed wells. This is most likely a combination of the following factors:

- The presence of DNAPL in the subsurface surrounding the injection points. This condition could have potentially caused accelerated reaction of the hydrogen peroxide, which in turn would cause rapid and significant upwelling of the groundwater and the injection fluid.
- The shallow water table: This condition creates a relatively small unsaturated zone between the top of the water table and surface grade that would allow the mounding of groundwater and injection fluids to take place without daylighting.
- The permeability of the subsurface in the AOC1 excavation area: Based on field observations the backfill material appears to be a fine to medium sand with varying amounts of silt and gravel. This condition could allow for the creation of preferential pathways allowing an unexpected upward migration of the injection fluids.

The remediation success using hydrogen peroxide is dependent on the ability to deliver the oxidant into the subsurface and across the impacted soil area. The results of the pilot test indicate that this cannot be accomplished using H_2O_2 as the oxidant with current subsurface conditions in OU1 AOC1. Because delivery of the oxidant was unsuccessful, discussion of the other objectives of this test, including potential ROI, injection flow rates, pressures and destruction of the COCs would be inconclusive and are not presented in this report. To this end, GES does not recommend that the remedial feasibility of ISCO with H_2O_2 be perused any further in the OU1 AOC1 area at this time.

The modified scope of work, including the injection of water into IP-1 and IP-2, was beneficial in evaluating if the subsurface would accept a less-reactive fluid. While the injections of water at IP-1 and IP-2 daylighted at the same locations as during the 10% H_2O_2 test, the potential exists that this was caused by preferential pathways created during that previous test. Experience at other sites has shown that these pathways could potential close up over time, sometimes as short as over one winter season. Without further testing, it is unknown if this will occur. Less reactive oxidants, such as sodium permanganate or potassium permanganate, tend to react more similar to water injections than hydrogen peroxide injections. At this point in time, GES also cannot completely eliminate other oxidant selections for remediation AOC1, including but not limited to sodium permanganate or potassium permanganate.

It is recommended that the DNAPL be recovered from the subsurface prior to attempting to conduct ISCO activities with sodium permanganate or potassium permanganate as an oxidant. The injection of these oxidants directly into DNAPL bearing soils could cause an encapsulation of the DNAPL with a magnesium oxide shell. While this encapsulation might initially reduce the groundwater plume concentrations and flux rates, it is undesirable as long term evidence points to eventual penetration of this shell by residual trichloroethene (TCE) DNAPL.

3.2 Remedial Pilot Testing (Pilot Test Area #2)

On September 11, and 12, 2013, GES conducted a remedial feasibility pilot test of ISCO technologies in PT-Area #2 using sodium permanganate. GES utilized their Permanganate Injection Platform (PIP) as the injection vehicle for the test. The PIP is a mobile self-contained injection platform that is used exclusively for permanganate injections. The PIP is configured with mixing pumps, injection pumps, flow meters, secondary containment and other hardware to specifically perform permanganate injections. The PIP is not equipped with air sparge capabilities. The testing was conducted using the following wells:

Chemical Injection Wells (Planned):	IP-3 and IP-4
Monitoring Wells:	MP-1, MP-2, MW1-6, MW1-7, MW1-22, MW1-18

The three principal objectives of this test were to: 1) evaluate the effectiveness of ISCO using sodium permanganate; 2) determine the ISCO ROI using sodium permanganate; and 3) measure the injection flow rate, pressure, and other data to design an ISCO injection process for sodium permanganate.

Field instruments were used to collect groundwater chemistry readings including DTW, pH, DO, ORP, and conductivity during the event. Field headspace readings from inside each well was also collected and logged for total volatiles, percent of lower explosive limit, percent oxygen, carbon dioxide concentration and hydrogen sulfide concentration. Sodium permanganate concentrations in groundwater monitored in each well using USEPA Periodate Oxidation Method 8034 with a Hach Pocket Colorimeter II Manganese HR System, with a range of 0-22 mg/l. If necessary, deionized water was used to dilute the samples in the field and bring the readings to within the range of the meter.

The planned feasibility testing as outline in the *July 2013 Workplan* included injections of 10% sodium permanganate solution into IP-3 and IP-4. Based on the observations of daylighting in PT-Area #1, the pilot test scope was modified to include the injection of water. This pre-test injection was completed to determine if the injection points could accept a non-reactive liquid without daylighting prior to moving forward with the permanganate solution. During the pre-testing of IP-4, daylighting of the water was observed around the concrete pad supporting the protective cover of the well. This well was deemed unsuitable for the injection of the permanganate solution. As an alternative injection well, the field crew selected the nearby well IW-13. Both IW-13 and IP-3 passed the water injection pre-test and sodium permanganate injections were completed at these locations.

During the injection at IW-13, the permanganate solution was observed at the top of MP-2. This is thought to have been caused by a potential preferential pathway between IW-3 and the well screen of MP-2. This subsurface “short circuiting” would have allowed the solution to enter into the well screen then fill MP-2 to the top. After letting the injection pressure at IW-13 subside, a well plug was placed on the top of MP-2, and the injection at IW-13 was continued. No other observations of daylighting occurred during the injection of sodium permanganate in PT-Area #2.

Post injection groundwater field chemistry data collection events occurred in September 2013, November 2013 and February 2014 in order to estimate the longevity of sodium permanganate in the subsurface. The following is a summary of the pilot injections that were completed in PT-Area #2. Pre-test and post-test field groundwater chemistry data are summarized on **Table 5**.

Water Injection

Well	Flow (GPM)	Pressure (PSI)	Status and Total Gallons Injected
IP-4	1.4	10	Well compromised - moved to IW-13
IP-3	1.5	5	~ 50 gallons of water, Well ok for $NaMnO_4$, injection
IW-13	1.5	3	~ 50 gallons of water, Well ok for $NaMnO_4$, injection

Sodium Permanganate Injection (September 11th)

Time	Well	Pressure (PSI)	Flow (GPM)	Well	Pressure (PSI)	Flow (GPM)
10:05	IW-13	4	1.25	IP-3	5	1.25
10:15	IW-13	4	1.25	IP-3	5	1.25
10:30	IW-13	4	1.25	IP-3	5	1.25
10:05	IW-13	4	1.25	IP-3	5	1.25
10:15	IW-13	3	1.55	IP-3	5	1.50
10:30	IW-13	4	1.50	IP-3	4	1.50
10:05	IW-13	6	1.75	IP-3	4	1.75
10:15	IW-13	6	1.75	IP-3	4	1.75
10:30	IW-13	6	1.75	IP-3	4	1.75
10:05	IW-13	5	2.00	IP-3	4	2.00
10:15	IW-13	5	2.25	IP-3	4	2.25
10:30	IW-13	5	2.25	IP-3	4	2.25
10:05	IW-13	5	2.85	IP-3	4	2.50
10:15	IW-13	6	2.50	IP-3	4	2.50
10:30	IW-13	6	2.75	IP-3	4	2.75
10:05	IW-13	6	2.75	IP-3	4	2.75
10:15	IW-13	6	3.00	IP-3	4	3.00
10:30	IW-13	6	3.00	IP-3	4	3.00
10:05	IW-13	6	3.00	IP-3	4	3.00
10:15	IW-13	6	3.00	IP-3	4	3.00
Total Gallons by Well			**539**			**534**

Sodium Permanganate Injection (September 12th)

Time	Well	Pressure (PSI)	Flow (GPM)	Well	Pressure (PSI)	Flow (GPM)
8:15	IW-13	5	3.00	IP-3	5	3.00
8:30	IW-13	5	3.00	IP-3	6	3.00
8:45	IW-13	5	3.00	IP-3	5	3.00
9:00	IW-13	5	3.00	IP-3	5	3.00
9:15	IW-13	5	3.00	IP-3	5	3.00
9:30	IW-13	5	3.00	IP-3	5	3.00
9:45	IW-13	6	3.00	IP-3	5	3.00
10:00	IW-13	3	1.00	IP-3	5	3.00
10:15	IW-13	2	1.00	IP-3	5	3.00
10:30	IW-13	0	1.00	IP-3	5	3.00
10:45	IW-13	0	1.00	IP-3	5	3.00
11:00	IW-13	0	1.00	IP-3	5	3.00
11:15	IW-13	0	1.00	IP-3	5	3.00
11:30	IW-13	0	1.00	IP-3	5	3.00
11:45	IW-13	0	1.00	IP-3	5	3.00
12:00	IW-13	0	1.00	IP-3	5	3.00
Total Gallons by Well-			**378**			**694**

$NaMnO_4$ = sodium permanganate gpm = gallons per minute psi = pounds per square inch

3.2.1 Summary of Findings Pilot Test #2:

The first objective of this test was to evaluate the effectiveness of ISCO technology using sodium permanganate. Flow rates and total gallons injected were within the range of feasibility to conduct a full scale injection within a reasonable time frame. Studies have shown that sodium permanganate can cause the destruction of the main COCs at this site, specifically TCE and its daughter products. It is not the scope of this pilot test to prove that this destruction will happen. This testing was completed to prove that the sodium permanganate will come in contact with the COCs to make this destruction possible and at flow rates and volumes that make the process economically viable. To that end, ISCO with sodium permanganate could be effective at remediating the COCs in Pilot Test Area #2 and areas of the site with similar soil permeability and contaminant levels.

The second objective of this test was to determine the ISCO ROI for sodium permanganate. In order to expand the monitoring well network, GES redeveloped the existing injection wells in PT-Area #2 so that they could be used as monitoring points during the test. These wells had very slow recharge rates during and after the development. This observation caused some question as to whether or not these wells were installed in such a way to provide usable data. This concern

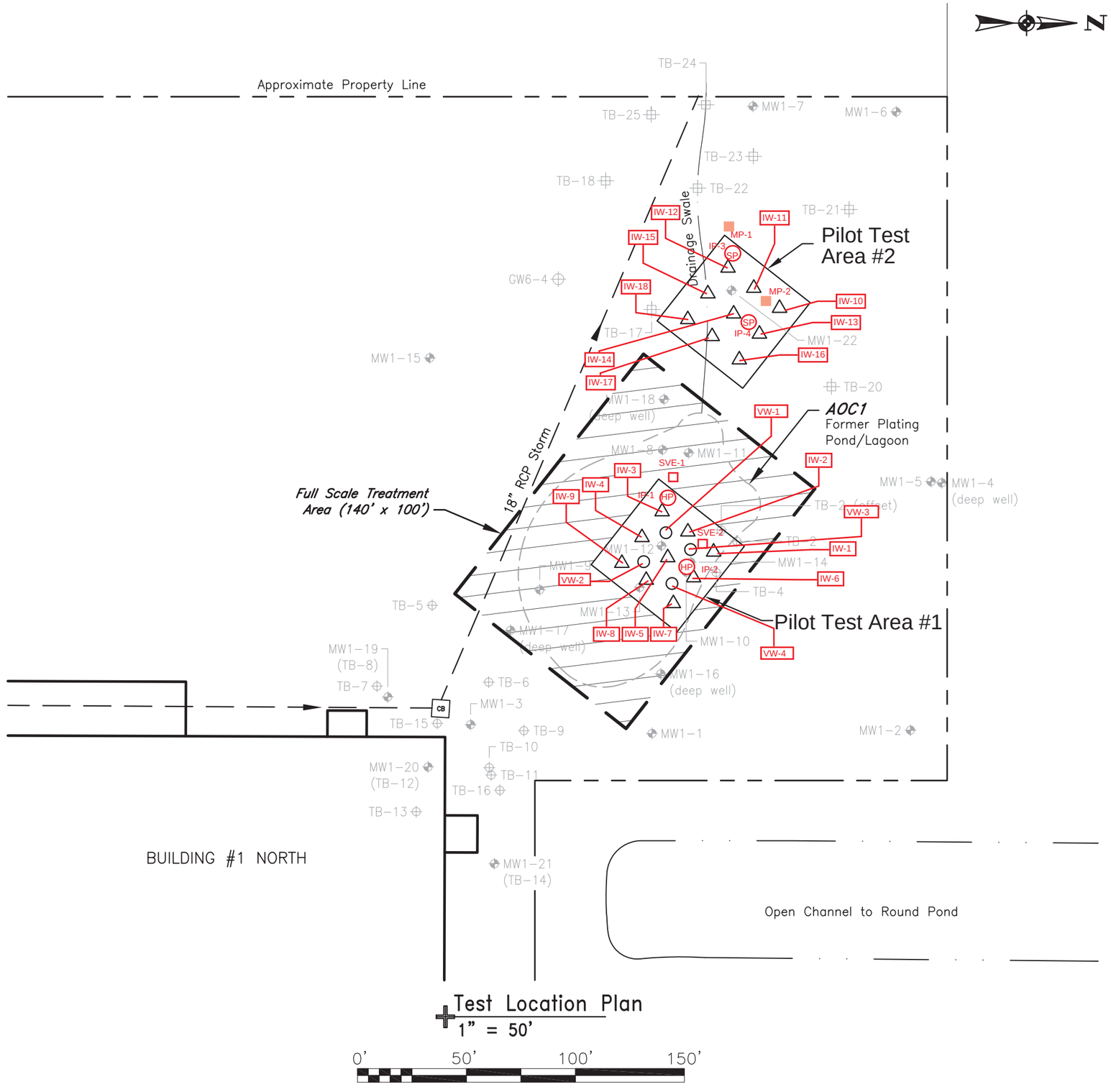
was confirmed when the permanganate was observed in wells much further away from the injection points than the existing injection wells. GES believes that these wells are in poor communication with the surrounding formation. This resulted in fewer than expected monitoring wells in the area and thusly resulted in a conservative estimate on the sodium permanganate ROI.

In general, permanganate was observed at a concentration greater than 1,000 milligrams per liter (mg/L) in the monitoring wells out to an 8.0 ft ROI. The maximum distance was 8.5 ft at MP-1 when injecting at IP-3. Sodium permanganate concentrations easily exceeded 10,000 mg/l at this 8 foot mark. Therefore, an argument can be made for a conservative estimate of a 10 foot plus ROI. Permanganate was observed at lower concentrations (1 to 13 mg/L) downgradient in monitoring wells greater than 65 ft away during post injection sampling events. However, the minimum sodium permanganate value that is considered to be effective is 200 mg/L. Therefore, while the downgradient increases in permanganate is encouraging data, it does not increase the confirmed ROI. It can be confirmed that the ISCO ROI for sodium permanganate at this site is at least 8.5 feet and most likely exceeds 10 feet. Even though only low levels of sodium permanganate were observed out to 65 feet downgradient, it would not be much of an exaggeration to assume that an ROI of greater than 10 feet downgradient would be achievable using larger volumes of sodium permanganate during injection events.

As of the February 6, 2014 post injection groundwater parameter sampling event, sodium permganate remained in both injections wells (IP-3 and IW-13) and one monitoring well (MP-2). The current decay rate calculated from the data available indicates that the permanganate will remain active at concentrations above 200 mg/L in the subsurface for approximately 7-10 months from the date of the injection. This is only an estimate and additional follow-up groundwater chemistry readings are recommended. Follow-up groundwater sampling should not be scheduled until it is confirmed permanganate no longer remains in the subsurface.

The last objective of this test was to measure the injection flow rate, pressure, and other data to design an ISCO injection process for sodium permanganate. GES' recommendations include:

- Abandoning the previously installed smaller diameter injection wells.
- Continue the use of dedicated injection points for future injection events.
- Restricting future injection rates to no greater than 2 gallons per minute until field data indicates that higher flow rates are achievable without causing daylighting.



NOTES:

1. Monitoring Well MW1-1 thru MW1-10 are 2" PVC wells installed December 2002.
2. Monitoring Wells MW1-11 thru MW1-14 are 4" Stainless Steel wells installed July 2003.
3. Monitoring Well MW1-15 thru MW1-21 are 2" PVC wells installed March 2004.
4. Monitroing Well MW1-22 and Test Borings TB-17 thru TB-25 installed June 2007.
5. Drawing prepared from Figure GEN-2 in the general work plan dated June 2002 and site observations by representatives of Day Environmental, Inc. from December 2002 through April 2004.

LEGEND:

GW6-4	Well Location identified from a report titled "Former Air Force Plant No. 51, HTRW Investigation, Greece, NY" by Ogden Environmental And Energy Services Co., Inc, dated April 2000
AOC1	Area Of Concern with Numbered Designation
MW1-1	Monitoring Well with Designation
TB-2	Test Boring with Designation
△	Pilot Test Injection Well
○	Pilot Test Vent Well
HP	HypeAir Injection Well
SP	Sodium Permanganate Injection Well
□	Soil Vapor Extraction/Monitoring Well
■	Monitoring well

Figure 1
Site Map

FIELD VERIFIED BY	JAD
DATE	01-2008
DRAWN BY	RJM
DATE DRAWN	02-21-2008
SCALE	1" = 50'
DATE ISSUED	03-04-2008

DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14614-1008
NEW YORK, NEW YORK 10165-1617

PROJECT TITLE
4777 DEWEY AVENUE
GREECE, NEW YORK

OU1 PILOT TEST PHASE REMEDIAL DESIGN PLAN

DRAWING TITLE
Tentative Pilot In-Situ Chemical Oxidation Treatment Areas

PROJECT NO.
2806S-01

PTP-E

Table 1

Summary of Soil Analytical Results - Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	1,2,4-TRICHLOROBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	2-HEXANONE	2-BUTANONE (METHYL ETHYL KETONE)	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE)
CAS Number		71-55-6	79-34-5	79-00-5	76-13-1	75-34-3	75-35-4	120-82-1	96-12-8	106-93-4	95-50-1	107-06-2	78-87-5	541-73-1	106-46-7	591-78-6	78-93-3	108-10-1
IP-1(16-18)	7/25/2013	ND<0.41	ND<0.91	ND<0.73	ND<1.3	ND<0.68	ND<0.69	ND<0.34	ND<2.8	ND<0.72	ND<0.44	ND<0.28	ND<2.8	ND<0.29	ND<0.79	ND<2.8	ND<2.1	ND<1.8
IP-2(14-16)	7/24/2013	ND<0.41	ND<0.92	ND<0.74	ND<1.3	ND<0.69	ND<0.70	ND<0.35	ND<2.8	ND<0.73	ND<0.44	ND<0.29	ND<2.8	ND<0.29	ND<0.80	ND<2.8	ND<2.1	ND<1.9
SVE-1(10-14)	7/22/2013	ND<0.40	ND<0.90	ND<0.72	ND<1.3	ND<0.68	1.7 J	ND<0.34	ND<2.8	ND<0.71	ND<0.43	ND<0.28	ND<2.8	ND<0.29	ND<0.78	ND<2.8	ND<2.0	ND<1.8
SVE-2(12-14)	7/23/2013	ND<0.40	ND<0.89	ND<0.72	ND<1.3	ND<0.67	ND<0.67	ND<0.33	ND<2.8	ND<0.71	ND<0.43	ND<0.28	ND<2.8	ND<0.28	ND<0.77	ND<2.8	ND<2.0	ND<1.8
IP-3(8-10)	7/26/2013	ND<0.43	ND<0.97	ND<0.78	ND<1.4	ND<0.73	ND<0.73	ND<0.36	ND<3.0	ND<0.77	ND<0.47	ND<0.30	ND<3.0	ND<0.31	ND<0.84	ND<3.0	ND<2.2	ND<2.0
IP-4(8-10)	7/29/2013	ND<0.33	ND<0.88	ND<0.71	ND<0.66	ND<0.66	ND<0.33	ND<0.27	ND<2.7	ND<0.70	ND<0.42	ND<0.27	ND<2.7	ND<0.28	ND<0.76	ND<2.7	ND<2.0	ND<1.8
MP-1(10-12)	7/26/2013	ND<0.39	ND<0.88	ND<0.71	ND<1.2	ND<0.66	ND<0.66	ND<0.33	ND<2.7	ND<0.70	ND<0.42	ND<0.27	ND<2.7	ND<0.28	ND<0.76	ND<2.7	ND<2.0	ND<1.8
MP-2(8-10)	7/26/2013	ND<0.41	ND<0.91	ND<0.73	ND<1.3	ND<0.68	ND<0.69	ND<0.34	ND<2.8	ND<0.72	ND<0.44	ND<0.28	ND<2.8	ND<0.29	ND<0.79	ND<2.8	ND<2.1	ND<1.8

Notes:

All Concentrations Reported In Micrograms per Kilogram (µg/Kg)

ND = Not detected greater than the Reporting Limit indicated.

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.

B = Results exceed calibration range.

Table 1

Summary of Soil Analytical Results - Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	ACETONE	BENZENE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	DIBROMOCHLOROMETHANE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	CYCLOHEXANE	DICHLORODIFLUOROMETHANE	ETHYLBENZENE
CAS Number		67-64-1	71-43-2	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	110-82-7	75-71-8	100-41-4
IP-1(16-18)	7/25/2013	11 J	ND<0.27	ND<0.75	ND<0.28	ND<0.50	ND<2.8	ND<0.54	ND<0.74	ND<0.72	ND<1.3	ND<0.35	ND<0.34	9.6	ND<0.81	ND<0.79	ND<0.46	ND<0.39
IP-2(14-16)	7/24/2013	12 J	ND<0.28	ND<0.76	ND<2.8	ND<0.51	ND<2.8	ND<0.55	ND<0.75	ND<0.73	ND<1.3	ND<0.35	ND<0.34	81	ND<0.82	ND<80	ND<0.47	ND<0.39
SVE-1(10-14)	7/22/2013	21 J	ND<0.27	ND<0.74	ND<2.8	ND<0.50	ND<2.8	ND<0.54	ND<0.73	ND<0.71	ND<1.3	ND<0.34	ND<0.34	340	ND<0.80	ND<0.78	ND<0.46	ND<0.38
SVE-2(12-14)	7/23/2013	13 J	ND<0.27	ND<0.74	ND<2.8	ND<0.50	ND<2.8	ND<0.53	ND<0.73	ND<0.70	ND<1.2	ND<0.34	ND<0.33	28	ND<0.79	ND<0.77	ND<0.45	ND<0.38
IP-3(8-10)	7/26/2013	5.1 J	ND<0.29	ND<0.80	ND<3.0	ND<0.54	ND<3.0	ND<0.58	ND<0.79	ND<0.76	ND<1.4	ND<0.37	ND<0.36	220	ND<0.86	ND<0.84	ND<0.49	ND<0.41
IP-4(8-10)	7/29/2013	ND<4.6	ND<0.27	ND<0.73	ND<2.7	ND<0.49	ND<2.7	ND<0.53	ND<0.72	ND<0.70	ND<1.2	ND<0.34	ND<0.33	4.4 J	ND<0.78	ND<0.76	ND<0.45	ND<0.37
MP-1(10-12)	7/26/2013	ND<4.6	NS<0.27	ND<0.73	ND<2.7	ND<0.49	ND<2.7	ND<0.53	ND<0.72	ND<0.70	ND<1.2	ND<0.34	ND<0.33	6.2	ND<0.78	ND<0.76	ND<0.45	ND<0.37
MP-2(8-10)	7/26/2013	6.1 J	ND<0.27	ND<0.75	ND<2.8	ND<0.50	ND<2.8	ND<0.54	ND<0.74	ND<0.72	ND<1.3	ND<0.35	ND<0.34	ND<0.72	ND<0.81	ND<0.79	ND<0.46	ND<0.39

Notes:

All Concentrations Reported In Micrograms per Kilogram (µg/Kg)

ND = Not detected greater than the Reporting Limit indicated.

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.

B = Results exceed calibration range.

Table 1

Summary of Soil Analytical Results - Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	ISOPROPYLBENZENE	METHYL ACETATE	METHYL TERT-BUTYL ETHER (MTBE)	METHYLCYCLOHEXANE	METHYLENE CHLORIDE	STYRENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES, TOTAL
CAS Number		98-82-8	79-20-9	1634-04-4	108-87-2	75-09-2	100-42-5	127-18-4	108-88-3	156-60-5	10061-02-6	79-01-6	75-69-4	75-01-4	1330-20-7
IP-1(16-18)	7/25/2013	ND<0.85	ND<1.0	ND<0.55	ND<0.85	ND<2.6	ND<0.28	ND<0.75	0.60 J	ND<0.58	ND<2.5	2,000	ND<0.53	ND<0.68	ND<0.94
IP-2(14-16)	7/24/2013	ND<0.86	ND<1.1	ND<0.56	ND<0.86	ND<2.6	ND<0.28	ND<0.76	ND<0.43	ND<0.59	ND<0.25	1,000	ND<0.54	1.5 J	ND<0.95
SVE-1(10-14)	7/22/2013	ND<0.84	ND<1.0	ND<0.55	ND<0.84	ND<2.6	ND<0.28	ND<0.75	0.63 J	2.5 J	ND<2.4	140	ND<0.53	63	ND<0.93
SVE-2(12-14)	7/23/2013	ND<0.83	ND<1.0	ND<0.54	ND<0.84	ND<2.5	ND<0.28	ND<0.74	ND<0.42	ND<0.57	ND<2.4	460	ND<0.52	ND<0.67	ND<0.93
IP-3(8-10)	7/26/2013	ND<0.90	ND<1.1	ND<0.59	ND<0.91	ND<2.7	ND<0.30	ND<0.80	ND<0.45	1.9 J	ND<2.6	15	ND<0.57	21	ND<1.0
IP-4(8-10)	7/29/2013	ND<0.82	ND<1.0	ND<0.53	ND<0.83	ND<2.5	NDL<0.27	1.5 J B	ND<0.41	ND<0.56	ND<2.4	1.3 J	ND<0.51	ND<0.66	ND<0.91
MP-1(10-12)	7/26/2013	ND<0.82	ND<1.0	ND<0.53	ND<0.83	ND<2.5	ND<0.27	ND<0.73	ND<0.41	ND<0.56	ND<2.4	3.2 J	ND<0.51	ND<0.66	ND<0.91
MP-2(8-10)	7/26/2013	ND<0.85	ND<1.0	ND<0.55	ND<0.85	ND<2.6	ND<0.28	1.5 J B	ND<0.42	ND<0.58	ND<2.5	ND<1.2	ND<0.53	ND<0.68	ND<0.94

Notes:

All Concentrations Reported In Micrograms per Kilogram (µg/Kg)

ND = Not detected greater than the Reporting Limit indicated.

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.

B = Results exceed calibration range.

Table 2

Summary of Soil Analytical Results - Total Organic Carbon (TOC) & Metals

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

		TOC	Metals										
Sample ID	Date	TOTAL ORGANIC CARBON	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON
CAS Number		~	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-48-4	7440-50-8	7439-89-6
IP-1(16-18)	7/25/2013	2,580	4,310	ND<0.43	3.2	38.3	0.27	0.061 J B	44,100 B	8.1	4.7	7.7	9,670 B
IP-2(14-16)	7/24/2013	6,840	5,080	ND<0.46	3	44.2	0.33	0.12 J B	45,700 B	8.8	4.8	10.4	10,200 B
SVE-1(10-14)	7/22/2013	3,890	5,230	ND<0.44	2.9	36.1	0.3	0.25 B	33,600 B	7.3	4.6	8.9	9,580 B
SVE-2(12-14)	7/23/2013	3,710	4,340	ND<0.45	3.0	25.9	0.2	0.11 J B	70,400 B	7.2	3.8	10.3	9,270 B
IP-3(8-10)	7/26/2013	3,810	9,700	ND<0.52	3.6	121	0.54	0.090 J B	49,400 B	14.3	9.7	15.9	16,100 B
IP-4(8-10)	7/29/2013	19,100	4,590	ND<0.44	2.2	31.4	0.27	0.049 J	20,000 B	7.0	5.6	5.7	10,100 B
MP-1(10-12)	7/26/2013	ND<1,130	4,820	ND<0.46	2.7	45.3	0.25	0.062 J B	22,500 B	7.1	5.0	6.5	9,170 B
MP-2(8-10)	7/26/2013	17,000	3,360	ND<0.43	2.3	36.6	0.21	0.043 J	31,600 B	5.8	3.4	7.9	8,110 B

Notes:

All Concentrations Reported In Micrograms per Kilogram (mg/Kg)

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B = Results exceed calibration range.

Table 2

Summary of Soil Analytical Results - Total Organic Carbon (TOC) & Metals

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

		Metals											
Sample ID	Date	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC
CAS Number		7439-92-1	7439-95-4	7439-96-5	7439-97-6	7440-02-0	7440-09-7	7782-49-2	7440-22-4	7440-23-5	7440-28-0	7440-62-2	7440-66-6
IP-1(16-18)	7/25/2013	2.6	13,500 B	322	ND<0.0088	9.8	914	0.74 J	ND<0.22	160	ND<0.32	11.3	19.4 B
IP-2(14-16)	7/24/2013	18.7	17,900 B	372	0.018 J	10.2	948	0.59 J	ND<0.23	144 J	ND<0.34	11.9	29.9 B
SVE-1(10-14)	7/22/2013	7.6	13,400 B	286	0.024	10.7	835	ND<0.44	ND<0.22	115 J	ND<0.33	10.6	28.6 B
SVE-2(12-14)	7/23/2013	7.7	22,600 B	459	ND<0.0090	8.8	931	0.55 J	ND<0.22	158	ND<0.33	9.5	23.5 B
IP-3(8-10)	7/26/2013	7.7	11,600 B	448	ND<0.010	20.2	1,810	0.87 J	ND<0.26	170 J	ND<0.39	18.7	45.0 B
IP-4(8-10)	7/29/2013	1.7	4,340	348 B	ND<0.0081	12.5	787	0.56 J	ND<0.22	52.2 J	ND<0.33	9.0	25 B
MP-1(10-12)	7/26/2013	1.7	4,780 B	402	ND<0.0091	10.4	924	ND<0.46	ND<0.23	76.9 J	ND<0.35	9.6	21.6 B
MP-2(8-10)	7/26/2013	1.8	8,220	302 B	ND<0.0083	7.4	671	ND<0.43	ND<0.21	121 J	ND<0.32	9.5	15.8 B

Notes:

All Concentrations Reported In Micrograms per Kilogram (mg/Kg)

ND = Not detected greater than the Reporting Limit indicated.

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B = Results exceed calibration range.

Table 3

Summary of Groundwater Analytical Results -Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	1,1,1-TRICHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	1,1,2-TRICHLOROETHANE	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	CIS 1,2-DICHLOROETHENE	1,2,4-TRICHLOROBENZENE	1,2-DIBROMO-3-CHLOROPROPANE	1,2-DIBROMOETHANE	1,2-DICHLOROBENZENE	1,2-DICHLOROETHANE	1,2-DICHLOROPROPANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE	2-HEXANONE	2-BUTANONE (METHYL ETHYL KETONE)
CAS Number		71-55-6	79-34-5	79-00-5	76-13-1	75-34-3	75-35-4	156-59-2	120-82-1	96-12-8	106-93-4	95-50-1	107-06-2	78-87-5	541-73-1	106-46-7	591-78-6	78-93-3
SVE-1	8/30/2013	ND<1.0	ND<1.0	ND<1.0	2.5	ND<1.0	170 E	43,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
SVE-2	8/30/2013	ND<1.0	ND<1.0	ND<1.0	8.3	ND<1.0	110 E	17,000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
MP-1	8/30/2013	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.9	4,900	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
MP-2	8/30/2013	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.62 J	900	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Notes:
All Concentrations Reported In Micrograms per Liter (µg/l)
ND = Not detected greater than the Reporting Limit indicated.
J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.
E = Results exceed calibration range.
B = Results exceed calibration range.

Table 3

Summary of Groundwater Analytical Results -Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE)	ACETONE	BENZENE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CARBON DISULFIDE	CARBON TETRACHLORIDE	CHLOROBENZENE	DIBROMOCHLOROMETHANE	CHLOROETHANE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE	CIS-1,3-DICHLOROPROPENE	CYCLOHEXANE	DIBROMOCHLOROMETHANE
CAS Number		108-10-1	67-64-1	71-43-2	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	110-82-7	75-25-2
SVE-1	8/30/2013	2.8 J	18	2.5	ND<1.0	ND<1.0	ND<1.0	34 B	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	43,000	ND<1.0	ND<1.0	ND<1.0
SVE-2	8/30/2013	5.0	6.1 J	2.1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	11,000	ND<1.0	2.3	ND<1.0
MP-1	8/30/2013	ND<5.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	5.2	ND<1.0	ND<1.0	4,900	ND<1.0	ND<1.0	ND<1.0
MP-2	8/30/2013	ND<5.0	ND<10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1.7 B	ND<1.0	ND<1.0	ND<1.0	1.4	ND<1.0	ND<1.0	900	ND<1.0	ND<1.0	ND<1.0

Notes:
All Concentrations Reported In Micrograms per Liter (µg/l)
ND = Not detected greater than the Reporting Limit indicated.
J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.
E = Results exceed calibration range.
B = Results exceed calibration range.

Table 3

Summary of Groundwater Analytical Results -Volatile Organic Compounds (VOCs)

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Sample ID	Date	DICHLORODIFLUOROMETHANE	ETHYLBENZENE	ISOPROPYLBENZENE	METHYL ACETATE	METHYL TERT-BUTYL ETHER (MTBE)	METHYLCYCLOHEXANE	METHYLENE CHLORIDE	STYRENE	TETRACHLOROETHENE	TOLUENE	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE	TRICHLOROETHENE	TRICHLOROFLUOROMETHANE	VINYL CHLORIDE	XYLENES, TOTAL
CAS Number		75-71-8	100-41-4	98-82-8	79-20-9	1634-04-4	108-87-2	75-09-2	100-42-5	127-18-4	108-88-3	156-60-5	10061-02-6	79-01-6	75-69-4	75-01-4	1330-20-7
SVE-1	8/30/2013	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	11	880 E	ND<1.0	190 E	ND<1.0	5,300	3.4
SVE-2	8/30/2013	ND<1.0	1.4	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	8.2	19	480 E	ND<1.0	91,000	ND<1.0	1,400 E	6.3
MP-1	8/30/2013	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.86 J	ND<1.0	ND<1.0	ND<1.0	0.57 J	26	ND<1.0	360	ND<1.0	500	ND<2.0
MP-2	8/30/2013	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	0.81 J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4.5	ND<1.0	66	ND<1.0	110	ND<2.0

Notes:
All Concentrations Reported In Micrograms per Liter (µg/l)
ND = Not detected greater than the Reporting Limit indicated.
J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.
E = Results exceed calibration range.

Table 4

Summary of Groundwater Analytical Results - Alkalinity & Total/Dissolved Metals

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

		Alkalinity	Metals										
Sample ID	Date	Alkalinity, total	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON
CAS Number		~	7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-48-4	7440-50-8	7439-89-6
Total-													
SVE-1	8/30/2013	496	0.72 B	ND<0.020	0.015	0.31	ND<0.0020	ND<0.0010	112 B	0.0016 J	ND<0.0040	0.0017 J	12.0
SVE-2	8/30/2013	744	26.7 B	ND<0.020	0.012	0.40	0.0013 J	0.00074 J	336 B	0.041	0.017	0.037	38.1
MP-1	8/30/2013	563	95.8 B	ND<0.020	0.042	1.2	0.0048	0.0017	945 B	0.16	0.079	0.12	153
MP-2	8/30/2013	633	226 B	ND<0.020	0.094	2.3	0.011	0.0019	1450 B	0.34	0.20	0.29	379
Dissolved-													
SVE-1	8/30/2013	~	0.063 J	ND<0.020	ND<0.010	0.25 B	ND<0.0020	ND<0.0010	103 B	0.0022 J B	ND<0.0040	ND<0.010	0.075
SVE-2	8/30/2013	~	0.10 J	ND<0.020	ND<0.010	0.2 B	ND<0.0020	ND<0.0010	177 B	0.0029 J B	0.0013 J	0.0041 J	ND<0.050
MP-1	8/30/2013	~	0.065 J	ND<0.020	ND<0.010	0.16 B	ND<0.0020	ND<0.0010	134 B	0.0028 J B	0.0017 J	0.0018 J	ND<0.050
MP-2	8/30/2013	~	0.096 J	ND<0.020	ND<0.010	0.18 B	ND<0.0020	ND<0.0010	145 B	0.0030 J B	0.0019 J	0.0018 J	0.019 J

Notes:

All Concentrations Reported In Milligrams per Liter (mg/l)

ND = Not detected greater than the Reporting Limit indicated.

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.

B = Results exceed calibration range.

Table 4

Summary of Groundwater Analytical Results - Alkalinity & Total/Dissolved Metals

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

		Metals												
Sample ID	Date	LEAD	MAGNESIUM	MANGANESE	MERCURY	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	THALLIUM	VANADIUM	ZINC
CAS Number		7439-92-1	7439-95-4	7439-96-5	7439-97-6	7440-02-0	7440-09-7	7782-49-2	7440-22-4	7440-23-5	7440-28-0	7440-62-2	7440-66-6
Total-													
SVE-1	8/30/2013	ND<0.0050	61.4	0.28 B	ND<0.00020	0.0015 J	6.1	ND<0.015	ND<0.0030	37.1	ND<0.020	ND<0.0050	0.023
SVE-2	8/30/2013	0.020	122	2.7 B	ND<0.00020	0.039	12.8	ND<0.015	ND<0.0030	30.6	ND<0.020	0.050	0.098
MP-1	8/30/2013	0.050	158	7.5 B	ND<0.00020	0.17	27.1	0.012 J	ND<0.0030	25.8	ND<0.020	0.20	0.31
MP-2	8/30/2013	0.11	262	10.5 B	ND<0.00020	0.44	53.3	ND<0.015	ND<0.0030	27.5	ND<0.020	0.44	0.69
Dissolved-													
SVE-1	8/30/2013	ND<0.0050	56.3	0.24	ND<0.00020	ND<0.010	5.6	ND<0.015	ND<0.0030	35.1	ND<0.020	ND<0.0050	0.0087 J B
SVE-2	8/30/2013	ND<0.0050	75.2	1.20	ND<0.00020	0.008	5.8	ND<0.015	ND<0.0030	28.1	ND<0.020	ND<0.0050	0.0086 J B
MP-1	8/30/2013	ND<0.0050	50.5	0.73	ND<0.00020	0.0044 J	5.3	ND<0.015	ND<0.0030	23.1	ND<0.020	ND<0.0050	0.0047 J B
MP-2	8/30/2013	ND<0.0050	53.5	0.63	ND<0.00020	0.0057 J	5.1	ND<0.015	ND<0.0030	22.6	ND<0.020	ND<0.0050	0.0044 J B

Notes:

All Concentrations Reported In Milligrams per Liter (mg/l)

ND = Not detected greater than the Reporting Limit indicated.

J = Result is less than Reporting Limit but greater than or equal to the Method Detection Limit and the concetration is an approximate value.

B = Results exceed calibration range.

Table 5

Field Groundwater Parameter Data

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Reading	Well ID	Date	Time	DTP (ft)	Product Thickness (ft)	DTW (ft)	Temp (^{o}C)	pH	DO (mg/L)	ORP (mV)	Cond (mS/cm)	PID (ppm)	LEL (%)	O2 (%)	CO_2 (ppm)	H_2S (ppm)	Peroxide (ppm)	Manganese Reading (mg/l)
IP-1	IP-1	1/1/1901	1:00															
Initial	IP-1	9/9/2013	9:15			5.97	11.48	12.82	0.73	212.9	4.403	407.0	2	19.7	1	0	0	NC
IP-2	IP-2	1/1/1901	1:00															
Initial	IP-2	9/9/2013	7:00			5.39	11.34	12.62	1.43	-66.1	4.247	618.0	0	20.3	0	0	0	NC
IP-3	IP-3	1/1/1901	1:00															
Initial	IP-3	9/10/2013	10:00			6.80	11.88	6.77	0.25	8.7	0.796	226	0	17.6	2	0	NC	0.0
Post- 21 Weeks	IP-3	2/6/2014	15:15			2.62	NC	NC	NC	NC	NC	0.0	0	20.9	0	0	NC	236,000
IP-4	IP-4	1/1/1901	1:00															
Initial	IP-4	9/10/2013	9:45			6.45	11.69	7.11	0.13	35.6	1.296	29.9	0	19.8	3	0	NC	0.0
Post- 21 Weeks	IP-4	2/6/2014	15:45			2.61	NC	NC	NC	NC	NC	0.0	0	20.9	0	0	NC	22,000
IW-10	IW-10	1/1/1901	1:00															
End Day #3	IW-10	9/11/2013	15:30			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.7
Final	IW-10	9/13/2013	12:10			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.0
Post - 1 Week	IW-10	9/20/2013	10:30			4.95	NA	NA	NA	NA	NA	559	8	19.7	15	0	NC	0.0
IW-11	IW-11	1/1/1901	1:00															
End Day #3	IW-11	9/11/2013	15:40			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.7
Final	IW-11	9/13/2013	12:20			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.0
Post - 1 Week	IW-11	9/20/2013	10:45			6.29	NA	NA	NA	NA	NA	509	16	20.4	59	0	NC	0.0
IW-12	IW-12	1/1/1901	1:00															
Final	IW-12	9/13/2013	12:50			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2.0
Post - 1 Week	IW-12	9/20/2013	11:00			5.78	NA	NA	NA	NA	NA	634	8	20.7	18	0	NC	13.0
IW-14	IW-14	1/1/1901	1:00															
Final	IW-14	9/13/2013	12:00			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.2
Final	IW-14	9/13/2013	12:40			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.0
Post - 1 Week	IW-14	9/20/2013	11:15			8.30	NA	NA	NA	NA	NA	417	3	20.4	12	3	NC	0.0
IW-15	IW-15	1/1/1901	1:00															
Post - 1 Week	IW-15	9/20/2013	11:30			5.02	NA	NA	NA	NA	NA	536	6	20.5	9	5	NC	NC
IW-16	IW-16	1/1/1901	1:00															
Final	IW-16	9/13/2013	12:30			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.0
Post - 1 Week	IW-16	9/20/2013	11:45			NA	NA	NA	NA	NA	NA	210	0	17.9	16	6	NC	NC
MP-1	MP-1	1/1/1901	1:00															
Initial	MP-1	9/10/2013	10:15			5.65	10.12	6.94	0.21	53.5	0.636	68.8	0	11.6	0	0	NC	0.0
End Day #3	MP-1	9/11/2013	15:10			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15,000
Final	MP-1	9/13/2013	13:10			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,500
Post - 1 Week	MP-1	9/20/2013	10:00			4.98	NC	NC	NC	NC	NC	44.0	0	5.6	213	0	NC	14,000
Post - 6 Weeks	MP-1	11/1/2013	10:30			3.04	12.11	7.44	2.68	472.0	0.862	310.0	7	0.0	43	0	NC	8.4
Post- 21 Weeks	MP-1	2/6/2014	14:15			1.58	10.60	7.43	0.59	68.3	0.896	103	0	20.7	0	0	NC	21.3

Table 5

Field Groundwater Parameter Data

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Reading	Well ID	Date	Time	DTP (ft)	Product Thickness (ft)	DTW (ft)	Temp (^{o}C)	pH	DO (mg/L)	ORP (mV)	Cond (mS/cm)	PID (ppm)	LEL (%)	O2 (%)	CO_2 (ppm)	H_2S (ppm)	Peroxide (ppm)	Manganese Reading (mg/l)
MP-2	MP-2	1/1/1901	1:00															
Initial	MP-2	9/10/2013	9:30			6.31	10.43	7.11	0.40	25.0	0.484	6.5	0	11.8	0	0	NC	0.0
End Day #3	MP-2	9/11/2013	15:00			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1,074,004
Final	MP-2	9/13/2013	13:30			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	537,002
Post - 1 Week	MP-2	9/20/2013	9:45			5.63	NC	NC	NC	NC	NC	9.6	0	19.8	684	0	NC	46,696
Post - 6 Weeks	MP-2	11/1/2013	10:00			4.16	NC	NC	NC	NC	NC	0.1	0	17.1	0	0	NC	42,000
Post- 21 Weeks	MP-2	2/6/2014	14:45			2.22	NC	NC	NC	NC	NC	0.0	0	20.9	0	0	NC	33,000
MW1-11	MW1-11	1/1/1901	1:00															
Initial	MW1-11	9/9/2013	8:15			8.89	10.48	6.86	0.35	-152.7	1.107	431.0	OFF	9.1	834	3	NC	NC
End Day #2	MW1-11	9/10/2013	17:50			8.52	10.75	6.77	0.46	-139.9	1.115	373	17	OVER	176	0	NC	NC
End Day #3	MW1-11	9/11/2013	16:30			8.00	10.59	6.72	0.51	-120.8	1.121	NC	NC	NC	NC	NC	NC	NC
Final	MW1-11	9/13/2013	9:00			8.40	10.42	6.77	0.33	-154.9	1.089	0.0	0	20.9	0	0	NC	NC
Post - 1 Week	MW1-11	9/20/2013	9:30			8.18	11.89	6.80	0.69	-136.6	1.199	7.3	0	20.9	7	0	NC	NC
Post- 21 Weeks	MW1-11	2/6/2014	12:45			4.84	9.03	7.05	0.55	-118.0	1.895	307	4	20.9	57	0	NC	0.0
MW1-12	MW1-12	1/1/1901	1:00															
Initial	MW1-12	9/9/2013	7:45	18.11	2.89	9.00	10.55	6.71	0.37	-99.2	0.024	18.8	OFF	13.2	75	0	0	NC
End Day #2	MW1-12	9/10/2013	17:30	NC	NC	Peroxide	NC	NC	NC	NC	NC	227.0	16	OVER	287	0	>.5	NC
Final	MW1-12	9/13/2013	11:30	NC	NC	Peroxide	NC	NC	NC	NC	NC	8.2	0	20.9	0	0	>.5	NC
Post - 1 Week	MW1-12	9/20/2013	13:30	17.40	3.60	8.66	NC	NC	NC	NC	NC	106.0	35	19.0	75	0	0	NC
Post - 6 Weeks	MW1-12	11/1/2013	11:45	19.20	1.80	NC	NC	NC	NC	NC	NC	7.8	100	1.2	289	3	NC	NC
MW1-13	MW1-13	1/1/1901	1:00															
Initial	MW1-13	9/9/2013	8:30	NA	Trace	8.67	11.58	7.27	1.16	-44.8	1.056	21.2	0	20.6	0	0	0	NC
End Day #2	MW1-13	9/10/2013	18:00	NC	NC	9.05	11.11	6.50	1.49	14.3	1.026	108	0	20.9	0	0	NC	NC
Final	MW1-13	9/13/2013	11:00	NC	NC	Peroxide	NC	NC	NC	NC	NC	2431.0	4	OVER	101	0	>.5	NC
Post - 1 Week	MW1-13	9/20/2013	13:45	NC	Trace	8.95	NC	NC	NC	NC	NC	6.9	0	20.9	10	0	0	NC
Post - 6 Weeks	MW1-13	11/1/2013	12:00	NA	None	NC	NC	NC	NC	NC	NC	797.0	100	17.0	165	2	NC	NC
MW1-14	MW1-14	1/1/1901	1:00															
Initial	MW1-14	9/9/2013	7:30	NA	Trace	8.58	10.67	6.73	0.47	-91.6	1.137	90.8	32	20.6	13	0	0	NC
End Day #2	MW1-14	9/10/2013	17:20	NC	NC	Peroxide	NC	NC	NC	NC	NC	6.0	0	20.9	0	0	>.5	NC
Final	MW1-14	9/13/2013	11:45	NC	NC	Peroxide	NC	NC	NC	NC	NC	89.2	0	21.9	19	0	>.5	NC
Post - 1 Week	MW1-14	9/20/2013	14:00	NA	None	8.55	NC	NC	NC	NC	NC	4.3	0	20.9	9	0	0	NC
Post - 6 Weeks	MW1-14	11/1/2013	11:30	NA	None	NC	NC	NC	NC	NC	NC	194.0	14	19.8	0	0	NC	NC
MW1-16	MW1-16	1/1/1901	1:00															
Initial	MW1-16	9/9/2013	8:45			7.36	9.56	7.89	0.37	-139.7	0.444	0.0	0	20.9	0	0	NC	NC
End Day #2	MW1-16	9/10/2013	18:10			7.26	9.47	7.54	0.39	-165.3	0.427	6.3	0	20.9	0	0	NC	NC
Final	MW1-16	9/13/2013	10:45			7.32	9.55	7.51	0.32	-137.7	0.362	0.0	0	20.9	0	0	NC	NC

Table 5

Field Groundwater Parameter Data

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Reading	Well ID	Date	Time	DTP (ft)	Product Thickness (ft)	DTW (ft)	Temp (^{o}C)	pH	DO (mg/L)	ORP (mV)	Cond (mS/cm)	PID (ppm)	LEL (%)	O2 (%)	CO_2 (ppm)	H_2S (ppm)	Peroxide (ppm)	Manganese Reading (mg/l)
MW1-18	MW1-18	1/1/1901	1:00															
Initial	MW1-18	9/9/2013	9:00			7.61	10.58	7.80	1.12	-157.6	0.471	0.0	0	20.9	3	0	NC	0.0
End Day #2	MW1-18	9/10/2013	18:20			7.56	9.39	7.76	0.80	-129.6	0.465	22.5	0	20.9	0	0	NC	2.6
End Day #3	MW1-18	9/11/2013	16:00			6.95	10.20	7.76	0.55	-100.7	0.484	NC	NC	NC	NC	NC	NC	NC
Final	MW1-18	9/13/2013	9:30			4.56	9.44	7.80	0.16	-165.6	0.463	0.0	0	20.9	0	0	NC	0.0
Post - 1 Week	MW1-18	9/20/2013	12:00			7.99	10.45	7.81	0.76	-186.0	0.483	8.3	0	20.9	10	0	NC	0.0
Post - 6 Weeks	MW1-18	11/1/2013	12:15			6.47	10.66	7.69	0.24	-199.8	0.457	2.7	0	20.6	0	0	NC	0.0
Post- 21 Weeks	MW1-18	2/6/2014	13:15			15.51	10.21	7.84	5.51	-43.1	0.679	4.1	0	20.8	0	0	NC	0.0
MW1-22	MW1-22	1/1/1901	1:00															
Initial	MW1-22	9/10/2013	10:30			10.25	NA	NA	NA	NA	NA	140	0	15.8	0	0	NC	0.0
End Day #3	MW1-22	9/11/2013	15:20			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	9,000
Final	MW1-22	9/13/2013	13:20			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	19,000
Post - 1 Week	MW1-22	9/20/2013	10:15			9.36	NA	NA	NA	NA	NA	57.4	0	19.6	56	0	NC	2,000
Post - 6 Weeks	MW1-22	11/1/2013	10:15			7.82	7.82	NA	NA	NA	NA	34.6	0	20.2	0	0	NC	3.4
Post- 21 Weeks	MW1-22	2/6/2014	13:45			6.35	NC	NC	NC	NC	NC	258	0	20.8	9	0	NC	5.5
MW1-4	MW1-4	1/1/1901	1:00															
Initial	MW1-4	9/10/2013	9:15			6.52	9.36	7.46	0.22	-101.6	0.580	0.0	0	20.9	0	0	NC	NC
Final	MW1-4	9/13/2013	10:15			6.51	9.26	7.51	0.19	-59.6	0.561	0.0	0	20.9	0	0	NC	NC
Post - 1 Week	MW1-4	9/20/2013	12:15			6.58	10.31	7.77	1.17	-78.9	0.616	0.9	0	20.9	28	0	NC	0.0
Post - 6 Weeks	MW1-4	11/1/2013	12:30			5.35	10.42	7.61	0.10	-157.7	0.547	0.0	0	20.9	0	0	NC	0.0
MW1-5	MW1-5	1/1/1901	1:00															
Initial	MW1-5	9/10/2013	9:00			9.15	10.43	6.93	5.00	12.8	0.761	0.0	0	20.6	0	0	NC	NC
Final	MW1-5	9/13/2013	10:30			9.16	10.22	6.86	4.71	47.7	0.728	0.0	0	20.9	0	0	NC	NC
Post - 1 Week	MW1-5	9/20/2013	12:30			9.40	11.33	6.98	4.55	-41.9	0.807	0.0	0	19.6	24	0	NC	1.2
Post - 6 Weeks	MW1-5	11/1/2013	11:15			6.91	11.90	7.01	0.22	-31.4	0.669	0.0	0	20.9	0	0	NC	1.7
MW1-6	MW1-6	1/1/1901	1:00															
Initial	MW1-6	9/10/2013	11:00			9.00	1.50	6.56	0.30	8.0	0.826	0.0	0	20.9	0	0	NC	0.0
End Day #3	MW1-6	9/11/2013	15:50			NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.7
Final	MW1-6	9/13/2013	10:00			8.48	9.25	6.59	0.31	-85.0	0.700	0.0	0	20.9	0	0	NC	4.6
Post - 1 Week	MW1-6	9/20/2013	13:00			8.90	10.34	6.77	2.59	-179.6	0.742	0.4	0	20.9	0	0	NC	7.8
Post - 6 Weeks	MW1-6	11/1/2013	11:00			6.05	11.01	6.82	0.19	-79.8	0.734	0.0	0	20.9	0	0	NC	13.2
Post- 21 Weeks	MW1-6	2/6/2014	16:45			4.12	9.79	6.97	0.34	-93.6	1.045	0.0	0	20.9	0	0	NC	11.8

Table 5

Field Groundwater Parameter Data

NYSDEC Former Air Force Plant #51 Site #828156
4777 Dewey Avenue
Greece, New York

Reading	Well ID	Date	Time	DTP (ft)	Product Thickness (ft)	DTW (ft)	Temp (^{o}C)	pH	DO (mg/L)	ORP (mV)	Cond (mS/cm)	PID (ppm)	LEL (%)	O2 (%)	CO_2 (ppm)	H_2S (ppm)	Peroxide (ppm)	Manganese Reading (mg/l)
MW1-7	MW1-7	1/1/1901	1:00															
Initial	MW1-7	9/10/2013	10:45			6.97	11.03	6.62	0.40	-48.6	0.915	0.0	0	20.9	0	0	NC	0.0
End Day #3	MW1-7	9/11/2013	16:45			7.19	11.01	6.59	0.54	-10.6	0.957	NC	NC	NC	NC	NC	NC	1.7
Final	MW1-7	9/13/2013	9:45			6.70	10.73	6.64	0.31	-43.2	0.909	0.0	0	20.9	0	0	NC	5.8
Post - 1 Week	MW1-7	9/20/2013	12:45			7.00	12.06	6.78	1.20	-51.7	1.024	0.0	0	17.6	24	0	NC	1.4
Post - 6 Weeks	MW1-7	11/1/2013	10:45			5.51	12.21	6.89	0.45	-27.0	0.849	0.1	0	20.9	0	0	NC	2.3
Post- 21 Weeks	MW1-7	2/6/2014	16:15			4.55	10.00	7.23	0.94	86.6	1.143	0.0	0	20.9	0	0	NC	2.0
MW1-8	MW1-8	1/1/1901	1:00															
Initial	MW1-8	9/9/2013	8:00			8.06	11.01	6.76	0.47	-137.6	1.086	0.0	0	20.9	0	0	NC	NC
End Day #2	MW1-8	9/10/2013	17:40			8.46	11.21	6.69	0.70	-97.4	1.182	3.7	0	20.9	0	0	NC	NC
End Day #3	MW1-8	9/11/2013	16:15			7.94	11.16	6.78	1.02	-106.8	1.290	NC	NC	NC	NC	NC	NC	NC
Final	MW1-8	9/13/2013	9:15			8.35	10.99	6.84	0.35	-131.5	1.210	0.0	0	20.9	0	0	NC	NC
Post - 1 Week	MW1-8	9/20/2013	9:15			8.19	12.44	6.81	0.56	-185.6	1.285	46.1	18	15.4	16	0	NC	NC
Post- 21 Weeks	MW1-8	2/6/2014	12:15			4.79	9.67	7.06	0.58	-119.7	1.405	0.6	0	20.9	0	0	NC	15.0
MW1-9	MW1-9	1/1/1901	1:00															
Final	MW1-9	9/13/2013	11:15			9.17	10.33	6.64	0.34	-76.6	0.959	0.0	0	20.9	0	0	NC	NC
SVE-1	SVE-1	1/1/1901	1:00															
Initial	SVE-1	9/9/2013	9:30			7.51	10.03	6.98	0.47	-108.3	0.643	52.1	OFF	9.1	204	0	0	NC
Final	SVE-1	9/10/2013	17:10			Peroxide	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	>.5	NC
SVE-2	SVE-2	1/1/1901	1:00															
Initial	SVE-2	9/9/2013	7:15			5.51	9.79	7.03	0.54	-12.8	0.932	105.0	43	15.5	0	0	0	NC
Final	SVE-2	9/10/2013	17:00			Peroxide	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	>.5	NC

APPENDIX I

Subsurface Logs

Nested Injection Point ID NO.IP-1

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

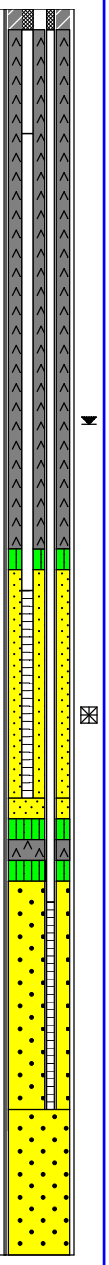
WATER DEPTH: **10-12 ft**
BOREHOLE DIA.: **10.25 in.**
WELL DIA.: **2 in. PVC & 3/4 in. SS**

TOTAL DEPTH: **30 ft**
CASING EL.: **~**

Logged By: **Scott McDonald**
Dates Drilled: **7/24-25/2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 6.25 in.**
Sampling Method: **Split Spoon (24 in. X 2 in. dia.)**
Soil Class. System: **Modified Burmeister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0						
	0-2	~	~	Brown SILT & CLAY	(0-5 ft) Soft dug Dry, Cobbles	10 in. Dia.well vault set in concrete
2				Brown CLAY, some Silt		(0.5-3 ftbg) 2 in. SS riser
	2-4	~	~		Moist, Cobbles & Bricks	
4				Grey CLAY & SILT, some fine Gravel		(0.5-13.5 ftbg) Grout
	4-5	~	~		Moist	
	5-6	0.1	100%	Brown CLAY & SILT, some fine Gravel	Moist	
6				Grey CLAY, some Silt & fine Gravel		(3-14 ftbg) 2 in. PVC Riser
	6-8	6.5	50%		Moist	
8						(0.5-21.5 ftbg) 3/4 in. SS riser
	8-10	8.6	60%		Moist	
10				8 in. fine GRAVEL & coase SAND		
	10-12	392.3	50%	4 in. Brown fine SAND & SILT, some fine Gravel	Wet	
12				Brown fine SAND & SILT		
	12-14	779.9	80%		Wet	(13-13.5 ftbg) Bentonite
14						
	14-16	1,139	70%		Wet	(13.5-19.5 ftbg) Sand
16				Brown medium to fine SAND, some Silt, trace fine Gravel		
	16-18	785.3	50%		Wet	(14-19 ftbg) 2 in. Screen
18				Brown fine SAND & SILT, trace fine Gravel		
	18-20	221.3	60%		Wet	(19.5-20 ftbg) Bentonite
20				Brown to Red fine SAND & CLAY, some Silt		(20-20.5 ftbg) Grout
	20-22	12.7	50%		Wet	(20.5-21 ftbg) Bentonite
22				Grey to Red fine SAND & CLAY, some Silt, trace fine Gravel		
	22-24	2.4	70%		Wet	
24				Brown fine SAND & SILT, trace fine Gravel		(21.5-26.5 ftbg) 3/4 in. Screen
	24-26	1.6	80%		Moist/Damp	
26						(21-30 ftbg) Sand
	26-28	3.2	90%		Dry	
28						
	28-30	0.7	80%		Dry	
30						



Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
2 in. Screen= PVC slot continuous
3/4 in. Screen= Stainless Steel (SS) Continuous wrap well screen

Symbol Key:
Apparent Water Level
Lab Sample Location

Nested Injection Point ID NO.IP-2

Groundwater and Environmental Services, Inc.

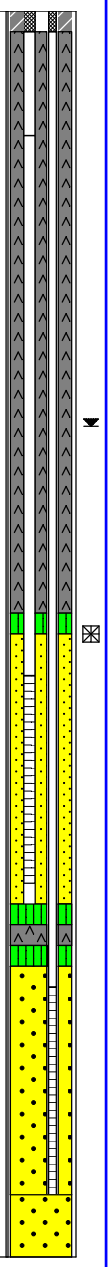
PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

WATER DEPTH: **10-12 ft.**
BOREHOLE DIA.: **10.25 in.**
WELL DIA.: **2 in. PVC & 3/4 in. SS**
TOTAL DEPTH: **30 ft**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-24-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 6.25 in.**
Sampling Method: **Split Spoon (24 in. X 2 in. dia.)**
Soil Class. System: **Modified Burmeister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0						
2	0-2	~	~	Brown CLAY & SILT	(0-5) Soft dug Dry	10in. Dia.well vault set in concrete
4	2-4	~	~	Brown CLAY & SILT, some coarse Sand, trace fine Gravel	Moist to Wet	(0.5-3 ftbg) 2 in. SS riser
	4-5	~	~	Light Grey CLAY, trace Silt & Cobbles	Moist	
6	5-6	~	~	No Recovery		(3-16 ftbg) 2 in. PVC Riser
	6-8	0.4	50%	Brown CLAY, trace Silt & fine Gravel	Moist	
8	8-10	0.4	40%	Brown CLAY, some Silt, trace fine Sand & fine Gravel	Moist	(0.5-14.5 ftbg) Grout
10	10-12	475.9	70%	4in. Brown CLAY & SILT, some medium to fine Sand 6in. Brown medium to fine GRAVEL, some fine Sand 3in. SILT & fine SAND, trace Clay	Wet	
12	12-14	3621.1	100%	1ft. Brown medium to fine GRAVEL & coarse SAND	Wet	(0.5-23.5 ftbg) 3/4 in. SS riser
14	14-16	139.7	50%	1ft. Brown fine SAND & SILT	Wet	(14.5-15ftbg) Bentonite
16	16-18	42.9	70%	Brown to Red fine SAND & SILT, some fine GRAVEL Grey to Red fine SAND, some Silt	Wet	(15-21.5ftbg) Sand
18	18-20	10.9	70%	Brown to Red CLAY & SILT	Wet	(16-21ftbg) 2in. Screen
20	20-22	2.7	70%	Brown to Grey SILT, some fine Sand & Clay, trace fine Gravel	Wet	(21.5-22 ftbg) Bentonite
22	22-24	1.0	80%	Brown SILT & fine SAND, trace fine Gravel & Clay	Wet	(22-22.5 ftbg) Grout (22.5-23 ftbg) Bentonite
24	24-26	1.7	80%	Brown fine SAND & SILT, trace fine Gravel	Wet	(23-30 ftbg) Sand
26	26-28	1.8	60%	Brown fine SAND, some Silt, trace fine Gravel	Moist	
28	28-30	31.1	60%		Moist	(23.5-28.5 ftbg) 3/4 in. Screen
30						



Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
2 in. Screen= PVC continuous slot
3/4 in. Screen= Stainless Steel (SS) Continuous wrap well screen

Symbol Key:
Apparent Water Level
Lab Sample Location

SVE Point

ID NO. **SVE-1**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **SVE Point**
NYSDEC Site **828156**

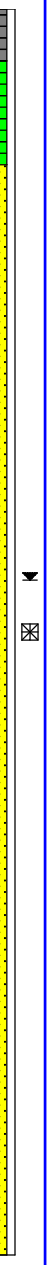
WATER DEPTH: **10-12 feet**
BOREHOLE DIA.: **10.25 inch**
WELL DIA.: **4 inch**

TOTAL DEPTH: **24 feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-22-23-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 6.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0						Flush mount manway
	0-2	~	~	Brown SILT, some Clay & Cobbles	(0-5) Soft dug Dry	(0-1) Concrete
2						(1-3) Bentonite
	2-4	~	~	Grey CLAY, some Silt, trace fine Sand & Cobbles	Moist	
4						(0-4) Riser
	4-6	~	~	Grey CLAY, trace Silt & Cobbles	Moist	
6						
	6-8	0.8	50%	Grey CLAY, trace Silt & fine Gravel	Moist	
8						
	8-10	4.2	70%		Moist	
10						
	10-12	219.7	40%	Dark Grey Medium to fine Gravel	Wet	
12						(4-24) Screen
	12-14	353.4	60%	Brown Fine SAND & SILT, trace fine Gravel	Moist	
14						
	14-16	64.6	70%		Wet	
16						
	16-18	7.0	70%	Brown Fine SAND & SILT, trace medium to fine Gravel	Wet	
18						
	18-20	7.8	100%	Brown Fine SAND & SILT, some Clay & medium to fine Gravel	Moist/Damp	
20						
	20-22	1.8	90%	Brown CLAY, some Silt, trace fine Gravel	Moist/Damp	
22						
	22-24	1.1	20%		Moist/Damp	
24						



Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Screen= PVC machine slot

Symbol Key:
Apparent Water Level
Lab Sample Location

SVE Point

ID NO. **SVE-2**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

WATER DEPTH: **11-13feet**
BOREHOLE DIA.: **10.25 inch**
WELL DIA.: **4 inch**

TOTAL DEPTH: **24 feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-23-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 6.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0						Flush mount manway
	0-2	~	~	Brown SILT, trace Clay & fine Gravel	Dry	(0-1) Concrete
2					(0-5) Soft dug	(1-3) Bentonite
	2-4	~	~	Brown CLAY, some Silt, trace coarse to medium Gravel	Dry, Cobbles	
4						(0-4) Riser
	4-5	~	~	No sample recovery	Dry, Cobbles	
	5-6	0.1	100%	Grey CLAY, trace Silt	Dry	
6						
	6-8	~	0%	No recovery rock in tip of spoon	Dry	
8						
	8-10	0.5	20%	Brown CLAY, trace Silt, & fine Gravel	Moist	
10				Grey SILT & fine SAND, trace fine Gravel		
	10-12	440.7	50%	Grey medium to fine GRAVEL & coarse SAND	Moist	
12						(4-24) Screen
	12-14	733.8	100%	Brown fine SAND & SILT, trace fine GRAVEL	Wet	
14				Brown fine SAND & SILT, trace Clay & fine Gravel		
	14-16	70.8	80%		Wet	
16						
	16-18	52.2	10%		Wet, Rock in tip of spoon	
18				Brown fine SAND & SILT, trace Clay & fine Gravel		
	18-20	3.9	50%		Wet	
20				Brown to Grey fine SAND & SILT		(3-24) Sand
	20-22	0.7	70%		Wet	
22				Brown SILT, some Clay, trace fine Sand		
	22-24	0.7	90%			
24						

Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Screen= PVC machine slot

Symbol Key:
Apparent Water Level
Lab Sample Location

Injection Point

ID NO. **IP-3**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

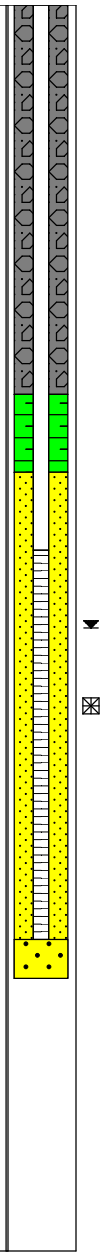
WATER DEPTH: **8-10 feet**
BOREHOLE DIA.: **6.25 inch**
WELL DIA.: **2 inch**

TOTAL DEPTH: **16 feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-29-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 4.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0	0-2	0.2	~	Brown Fine SAND & SILT, trace medium to fine Gravel	(0-5) Soft dug Dry	Flush mount manway
2	2-4	1.7	~	Brown CLAY, some Silt	Dry	(0-5) Grout
4	4-5	2.7	~		Moist	(0-7) Riser
	5-6	5.1	100%		Moist	(5-6) Bentonite
6	6-8	17.2	100%	Brown SILT, some Clay	Moist	
8	8-10	31.0	100%	Brown Fine SAND and SILT, some Clay	Wet	
10	10-12	31.2	100%	Brown Clay, trace Silt	Moist	(7.5-12.5) Sand
12	12-13	12.0	100%		Moist	(7-12) Screen
	13-14	17.3		Red Coarse to Fine SAND, some fine Gravel, trace Silt	Dry	
14	14-16	1.0	90%	Brown Fine SAND & SILT, some Clay, trace fine Gravel	Moist to Wet	
16						



Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Screen= PVC Vee-wrape

Symbol Key:
Apparent Water Level
Lab Sample Location

Injection Point

ID NO. **IP-4**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

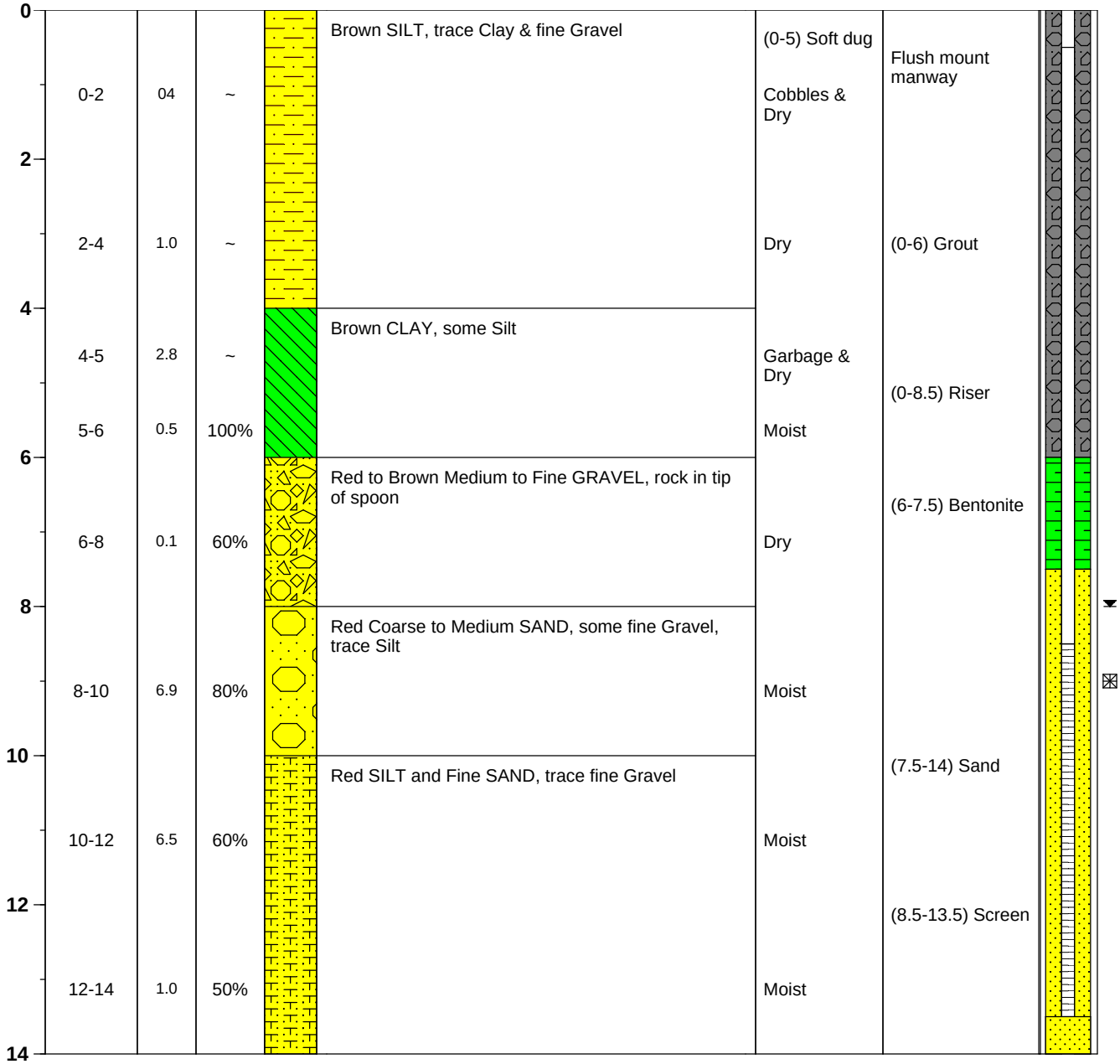
WATER DEPTH: **8-10 feet**
BOREHOLE DIA.: **6.25 inch**
WELL DIA.: **2 inch**

TOTAL DEPTH: **14 feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-29-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 4.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0	0-2	04	~	Brown SILT, trace Clay & fine Gravel	(0-5) Soft dug Cobbles & Dry	Flush mount manway
2	2-4	1.0	~		Dry	(0-6) Grout
4	4-5	2.8	~	Brown CLAY, some Silt	Garbage & Dry	(0-8.5) Riser
	5-6	0.5	100%		Moist	
6	6-8	0.1	60%	Red to Brown Medium to Fine GRAVEL, rock in tip of spoon	Dry	(6-7.5) Bentonite
8	8-10	6.9	80%	Red Coarse to Medium SAND, some fine Gravel, trace Silt	Moist	
10	10-12	6.5	60%	Red SILT and Fine SAND, trace fine Gravel	Moist	(7.5-14) Sand
12	12-14	1.0	50%		Moist	(8.5-13.5) Screen
14						



Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Garbage= plastic and paper scrapes/debris
Screen= PVC Vee-wrape

Symbol Key:
Apparent Water Level
Lab Sample Location

Monitoring Point

ID NO. **MP-1**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

WATER DEPTH: **10-12feet**
BOREHOLE DIA.: **6.25 inch**
WELL DIA.: **2 inch**

TOTAL DEPTH: **18feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-26-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 4.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments
0	0-2	0.2	~	Tan SILT & fine SAND, some fine to medium Gravel	(0-5) Soft dug Dry
2	2-4	2.4	~	Brown CLAY, some Sit	Moist, Cobbles
4	4-5	5.2	~	Brown CLAY	Moist, Cobbles
6	5-6	~	~	No recovery rock in tip of spoon	
	6-8	~	~	No recovery rock in tip of spoon	
8	8-10	12.9	100%	Brown CLAY, some Silt	Moist
10	10-12	24.4	80%	Brown fine SAND, some Silt, trace Clay & fine Gravel	Wet
12	12-14	14.5	70%	Brown fine SAND & SILT, some fine Gravel	Wet, hard drilling (cobbles)
14	14-16	0.4	70%	Grey fine SAND & SILT	Moist
16	16-18	0.4	60%	Brown fine SAND & SILT	Moist
18					

COMPLETION DETAILS: Flush mount manway; (0-1) Concrete; (1-3) Bentonite; (0-4) Riser; (4-18) Screen

Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Screen= PVC machine slot

Symbol Key:
Apparent Water Level
Lab Sample Location

Monitoring Point

ID NO. **MP-2**

Groundwater and Environmental Services, Inc.

PROJECT: **Former Air Force Plant 51**
ADDRESS: **4777 Dewey Avenue**
NYSDEC Site **828156**

WATER DEPTH: **10-12feet**
BOREHOLE DIA.: **6.25 inch**
WELL DIA.: **2 inch**

TOTAL DEPTH: **18feet**
CASING EL.: ~

Logged By: **Scott McDonald**
Dates Drilled: **7-26 & 29-2013**
Drilling Company: **Parratt Wolff**

Drilling Method: **Hollow Stem Auger, 4.25"**
Sampling Method: **Split Spoon (24"X2"dia.)**
Soil Class. System: **Burmister**
Field Screening: **PID 10.9 eV Lamp (ppm)**

Depth (feet)	Sample Interval	Field Screen (PPM)	% Recovered	SAMPLE LITHOLOGY	Comments	COMPLETION DETAILS
0	0-2	0.4	~	Brown SILT, some fine Sand, trace medium to fine Gravel	(0-5) Soft dug Dry	Flush mount manway (0-1) Concrete
2				Brown SILT, trace Clay		(1-3) Bentonite
	2-4	0.5	~		Damp, Cobbles	
4				Bronwn CLAY, some Silt		(0-4) Riser
	4-5	1.1	~		Moist, Cobbles	
	5-6	0.8	60%			
6				Brown CLAY, trace Silt and fine Sand		
	6-8	2.5	90%			
8				Brown medium to fine SAND some Silt		
	8-10	19.6	70%		Moist	
10				Red medium to fine SAND and fine GRAVEL, some Silt		
	10-12	14.2	50%		Wet	
12						(4-18) Screen
	12-14	7.1	40%		Wet, hard drilling (cobbles)	
14				Grey fine SAND & SILT, trace fine Gravel		
	14-16	0.4	80%		Wet	
16						
	16-18	0.5	50%		Moist	
18						

Location:
Northing/Latitude: ~
Easting/Longitude: ~
Horizontal Datum: ~
Vertical Datum:

General Comments:
Screen= PVC machine slot

Symbol Key:
Apparent Water Level
Lab Sample Location

APPENDIX II

Laboratory Analytical Reports (Results Only)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

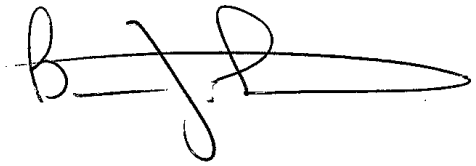
Job Number: 480-42724-1

SDG Number: ISCO

Job Description: NYSDEC - Air Force Plant 51: Site#828156

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, NY 12233-3256

Attention: Mr. Eric Hausamann



Approved for release.
Brian J Fischer
Project Manager II
8/29/2013 9:45 AM

Brian J Fischer, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
08/29/2013

cc: Mike Musso

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

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Job Narrative
480-42724-1

Comments
No additional comments.

Receipt
The samples were received on 7/26/2013 4:35 PM and 7/31/2013 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.4º C and 5.0º C.

GC/MS VOA
Method(s) 8260B: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications: IP-1 (16-18) (480-42724-4), IP-2 (14-16) (480-42724-3), IP-3 (8-10) (480-42724-6), MP-1 (10-12) (480-42724-5), SVE-1 (10-14) (480-42724-1), SVE-2 (12-14) (480-42724-2).

Method(s) 8260B: The laboratory control sample (LCS) for batch 131163 recovered outside control limits for the following analytes: Methyl Acetate. These analytes were biased high in the LCS. The associated compound is not a targeted spike compound. (LCS 480-131163/6)

Method(s) 8260B: The following soil samples were prepped at 0.5 grams to bring the concentration of target analytes within the calibration range: IP-3 (8-10) (480-42724-6), SVE-1 (10-14) (480-42724-1), SVE-2 (12-14) (480-42724-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Reported analyte concentrations in the following samples are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications: IP-3 (8-10) (480-42724-6), SVE-1 (10-14) (480-42724-1), SVE-2 (12-14) (480-42724-2).

Method(s) 8260B: The laboratory control sample (LCS) for batch 131084 recovered outside control limits for the following analytes: Methyl Acetate. These analytes were biased high in the LCS. The associated compound is not a targeted spike compound. (LCS 480-131084/7)

Method(s) 8260B: The following sample(s) were analyzed medium level to bring the concentration of target analytes within the calibration range: IP-1 (16-18) (480-42724-4), IP-2 (14-16) (480-42724-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The method blank for batch 131948 contained Tetrachloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. (MB 480-131948/7)

Method(s) 8260B: Reported analyte concentrations in samples are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications: IP-4 (8-10) (480-42943-2), MP-2 (8-10) (480-42943-1).

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The Method Blank for batch 480-131204 contained total calcium, cadmium, iron, magnesium, and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples IP-1 (16-18) (480-42724-4), IP-2 (14-16) (480-42724-3), IP-3 (8-10) (480-42724-6), MP-1 (10-12) (480-42724-5), SVE-1 (10-14) (480-42724-1), SVE-2 (12-14) (480-42724-2) was not performed.

Method(s) 6010B: The Method Blank for batch 480-131879 contained total calcium, iron, manganese, and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of samples IP-4 (8-10) (480-42943-2), MP-2 (8-10) (480-42943-1) was not performed.

No other analytical or quality issues were noted.

General Chemistry
Method(s) Lloyd Kahn: The laboratory did analyze each sample in batch 59382 in duplicate, and the (Total Organic Carbon) results of the two individual determinations were averaged in deriving a final result for a particular sample. In those instances when the two values yielded a relative percent difference greater than 40 percent, as was the case in the analysis of samples IP-2 (14-16) (480-42724-3), IP-3 (8-10) (480-42724-6), SVE-1 (10-14) (480-42724-1), SVE-2 (12-14) (480-42724-2), the laboratory did provide for additional determinations, and applied the “Dixon” outlier test to the total population of determinations. The results of that assessment are provided informationally in this submittal.

Method(s) Lloyd Kahn: The laboratory did analyze each sample in batch 59873 in duplicate, and the (Total Organic Carbon/Black Carbon) results of the two individual determinations were averaged in deriving a final result for a particular sample. In those instances when the two values yielded a relative percent difference greater than 40 percent, as was the case in the analysis of samples IP-4 (8-10) (480-42943-2), the laboratory did provide for additional determinations, and applied the “Dixon” outlier test to the total population of determinations. The results of that assessment are provided informationally in this submittal.

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-42724-1	SVE-1 (10-14)	Solid	07/22/2013 1530	07/26/2013 1635
480-42724-2	SVE-2 (12-14)	Solid	07/23/2013 1030	07/26/2013 1635
480-42724-3	IP-2 (14-16)	Solid	07/24/2013 0930	07/26/2013 1635
480-42724-4	IP-1 (16-18)	Solid	07/25/2013 0830	07/26/2013 1635
480-42724-5	MP-1 (10-12)	Solid	07/26/2013 0730	07/26/2013 1635
480-42724-6	IP-3 (8-10)	Solid	07/26/2013 1115	07/26/2013 1635
480-42943-1	MP-2 (8-10)	Solid	07/26/2013 1315	07/31/2013 1650
480-42943-2	IP-4 (8-10)	Solid	07/29/2013 1430	07/31/2013 1650

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-1	**SVE-1 (10-14)**					
1,1-Dichloroethene		1.7	J	5.6	ug/Kg	8260B
Acetone		21	J	28	ug/Kg	8260B
cis-1,2-Dichloroethene		340		52	ug/Kg	8260B
Toluene		0.63	J	5.6	ug/Kg	8260B
trans-1,2-Dichloroethene		2.5	J	5.6	ug/Kg	8260B
Trichloroethene		140		5.6	ug/Kg	8260B
Vinyl chloride		63		5.6	ug/Kg	8260B
Aluminum		5230		10.9	mg/Kg	6010B
Arsenic		2.9		2.2	mg/Kg	6010B
Barium		36.1		0.55	mg/Kg	6010B
Beryllium		0.30		0.22	mg/Kg	6010B
Cadmium		0.25	B	0.22	mg/Kg	6010B
Calcium		33600	B	54.6	mg/Kg	6010B
Chromium		7.3		0.55	mg/Kg	6010B
Cobalt		4.6		0.55	mg/Kg	6010B
Copper		8.9		1.1	mg/Kg	6010B
Iron		9580	B	10.9	mg/Kg	6010B
Lead		7.6		1.1	mg/Kg	6010B
Magnesium		13400	B	21.8	mg/Kg	6010B
Manganese		286		0.22	mg/Kg	6010B
Nickel		10.7		5.5	mg/Kg	6010B
Potassium		835		32.7	mg/Kg	6010B
Sodium		115	J	153	mg/Kg	6010B
Vanadium		10.6		0.55	mg/Kg	6010B
Zinc		28.6	B	2.2	mg/Kg	6010B
Mercury		0.024		0.022	mg/Kg	7471A
Total Organic Carbon		3890		1130	mg/Kg	Lloyd Kahn
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-2	**SVE-2 (12-14)**					
Acetone		13	J	28	ug/Kg	8260B
cis-1,2-Dichloroethene		28		5.5	ug/Kg	8260B
Trichloroethene		460		46	ug/Kg	8260B
Aluminum		4340		11.1	mg/Kg	6010B
Arsenic		3.0		2.2	mg/Kg	6010B
Barium		25.9		0.56	mg/Kg	6010B
Beryllium		0.24		0.22	mg/Kg	6010B
Cadmium		0.11	J B	0.22	mg/Kg	6010B
Calcium		70400	B	55.7	mg/Kg	6010B
Chromium		7.2		0.56	mg/Kg	6010B
Cobalt		3.8		0.56	mg/Kg	6010B
Copper		10.3		1.1	mg/Kg	6010B
Iron		9270	B	11.1	mg/Kg	6010B
Lead		7.7		1.1	mg/Kg	6010B
Magnesium		22600	B	22.3	mg/Kg	6010B
Manganese		459		0.22	mg/Kg	6010B
Nickel		8.8		5.6	mg/Kg	6010B
Potassium		931		33.4	mg/Kg	6010B
Selenium		0.55	J	4.5	mg/Kg	6010B
Sodium		158		156	mg/Kg	6010B
Vanadium		9.5		0.56	mg/Kg	6010B
Zinc		23.5	B	2.2	mg/Kg	6010B
Total Organic Carbon		3710		1110	mg/Kg	Lloyd Kahn
Percent Moisture		9.9		0.10	%	Moisture
Percent Solids		90		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-3	**IP-2 (14-16)**					
Acetone		12	J	28	ug/Kg	8260B
cis-1,2-Dichloroethene		81		5.7	ug/Kg	8260B
Trichloroethene		1500	E	5.7	ug/Kg	8260B
Trichloroethene		1000		110	ug/Kg	8260B
Vinyl chloride		1.5	J	5.7	ug/Kg	8260B
Aluminum		5080		11.4	mg/Kg	6010B
Arsenic		3.0		2.3	mg/Kg	6010B
Barium		44.2		0.57	mg/Kg	6010B
Beryllium		0.33		0.23	mg/Kg	6010B
Cadmium		0.12	J B	0.23	mg/Kg	6010B
Calcium		45700	B	57.1	mg/Kg	6010B
Chromium		8.8		0.57	mg/Kg	6010B
Cobalt		4.8		0.57	mg/Kg	6010B
Copper		10.4		1.1	mg/Kg	6010B
Iron		10200	B	11.4	mg/Kg	6010B
Lead		18.7		1.1	mg/Kg	6010B
Magnesium		17900	B	22.8	mg/Kg	6010B
Manganese		372		0.23	mg/Kg	6010B
Nickel		10.2		5.7	mg/Kg	6010B
Potassium		948		34.3	mg/Kg	6010B
Selenium		0.59	J	4.6	mg/Kg	6010B
Sodium		144	J	160	mg/Kg	6010B
Vanadium		11.9		0.57	mg/Kg	6010B
Zinc		29.9	B	2.3	mg/Kg	6010B
Mercury		0.018	J	0.023	mg/Kg	7471A
Total Organic Carbon		6840		1170	mg/Kg	Lloyd Kahn
Percent Moisture		15		0.10	%	Moisture
Percent Solids		85		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-4	**IP-1 (16-18)**					
Acetone		11	J	28	ug/Kg	8260B
cis-1,2-Dichloroethene		9.6		5.6	ug/Kg	8260B
Toluene		0.60	J	5.6	ug/Kg	8260B
Trichloroethene		2500	E	5.6	ug/Kg	8260B
Trichloroethene		2000		110	ug/Kg	8260B
Aluminum		4310		10.8	mg/Kg	6010B
Arsenic		3.2		2.2	mg/Kg	6010B
Barium		38.3		0.54	mg/Kg	6010B
Beryllium		0.27		0.22	mg/Kg	6010B
Cadmium		0.061	J B	0.22	mg/Kg	6010B
Calcium		44100	B	54.1	mg/Kg	6010B
Chromium		8.1		0.54	mg/Kg	6010B
Cobalt		4.7		0.54	mg/Kg	6010B
Copper		7.7		1.1	mg/Kg	6010B
Iron		9670	B	10.8	mg/Kg	6010B
Lead		2.6		1.1	mg/Kg	6010B
Magnesium		13500	B	21.7	mg/Kg	6010B
Manganese		322		0.22	mg/Kg	6010B
Nickel		9.8		5.4	mg/Kg	6010B
Potassium		914		32.5	mg/Kg	6010B
Selenium		0.74	J	4.3	mg/Kg	6010B
Sodium		160		152	mg/Kg	6010B
Vanadium		11.3		0.54	mg/Kg	6010B
Zinc		19.4	B	2.2	mg/Kg	6010B
Total Organic Carbon		2580		1140	mg/Kg	Lloyd Kahn
Percent Moisture		12		0.10	%	Moisture
Percent Solids		88		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-5	**MP-1 (10-12)**					
cis-1,2-Dichloroethene		6.2		5.4	ug/Kg	8260B
Trichloroethene		3.2	J	5.4	ug/Kg	8260B
Aluminum		4820		11.5	mg/Kg	6010B
Arsenic		2.7		2.3	mg/Kg	6010B
Barium		45.3		0.58	mg/Kg	6010B
Beryllium		0.25		0.23	mg/Kg	6010B
Cadmium		0.062	J B	0.23	mg/Kg	6010B
Calcium		22500	B	57.6	mg/Kg	6010B
Chromium		7.1		0.58	mg/Kg	6010B
Cobalt		5.0		0.58	mg/Kg	6010B
Copper		6.5		1.2	mg/Kg	6010B
Iron		9170	B	11.5	mg/Kg	6010B
Lead		1.7		1.2	mg/Kg	6010B
Magnesium		4780	B	23.0	mg/Kg	6010B
Manganese		402		0.23	mg/Kg	6010B
Nickel		10.4		5.8	mg/Kg	6010B
Potassium		924		34.5	mg/Kg	6010B
Sodium		76.9	J	161	mg/Kg	6010B
Vanadium		9.6		0.58	mg/Kg	6010B
Zinc		21.6	B	2.3	mg/Kg	6010B
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42724-6	**IP-3 (8-10)**					
Acetone		5.1	J	30	ug/Kg	8260B
cis-1,2-Dichloroethene		220		54	ug/Kg	8260B
trans-1,2-Dichloroethene		1.9	J	6.0	ug/Kg	8260B
Trichloroethene		15		6.0	ug/Kg	8260B
Vinyl chloride		21		6.0	ug/Kg	8260B
Aluminum		9700		13.1	mg/Kg	6010B
Arsenic		3.6		2.6	mg/Kg	6010B
Barium		121		0.65	mg/Kg	6010B
Beryllium		0.54		0.26	mg/Kg	6010B
Cadmium		0.090	J B	0.26	mg/Kg	6010B
Calcium		49400	B	65.4	mg/Kg	6010B
Chromium		14.3		0.65	mg/Kg	6010B
Cobalt		9.7		0.65	mg/Kg	6010B
Copper		15.9		1.3	mg/Kg	6010B
Iron		16100	B	13.1	mg/Kg	6010B
Lead		7.7		1.3	mg/Kg	6010B
Magnesium		11600	B	26.1	mg/Kg	6010B
Manganese		448		0.26	mg/Kg	6010B
Nickel		20.2		6.5	mg/Kg	6010B
Potassium		1810		39.2	mg/Kg	6010B
Selenium		0.87	J	5.2	mg/Kg	6010B
Sodium		170	J	183	mg/Kg	6010B
Vanadium		18.7		0.65	mg/Kg	6010B
Zinc		45.0	B	2.6	mg/Kg	6010B
Total Organic Carbon		3810		1230	mg/Kg	Lloyd Kahn
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42943-1	**MP-2 (8-10)**					
Acetone		6.1	J	28	ug/Kg	8260B
Tetrachloroethene		1.5	J B	5.6	ug/Kg	8260B
Aluminum		3360		10.6	mg/Kg	6010B
Arsenic		2.3		2.1	mg/Kg	6010B
Barium		36.6		0.53	mg/Kg	6010B
Beryllium		0.21		0.21	mg/Kg	6010B
Cadmium		0.043	J	0.21	mg/Kg	6010B
Calcium		31600	B	53.2	mg/Kg	6010B
Chromium		5.8		0.53	mg/Kg	6010B
Cobalt		3.4		0.53	mg/Kg	6010B
Copper		7.9		1.1	mg/Kg	6010B
Iron		8110	B	10.6	mg/Kg	6010B
Lead		1.8		1.1	mg/Kg	6010B
Magnesium		8220		21.3	mg/Kg	6010B
Manganese		302	B	0.21	mg/Kg	6010B
Nickel		7.4		5.3	mg/Kg	6010B
Potassium		671		31.9	mg/Kg	6010B
Sodium		121	J	149	mg/Kg	6010B
Vanadium		9.5		0.53	mg/Kg	6010B
Zinc		15.8	B	2.1	mg/Kg	6010B
Total Organic Carbon		11700		1120	mg/Kg	Lloyd Kahn
Percent Moisture		11		0.10	%	Moisture
Percent Solids		89		0.10	%	Moisture

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-42943-2	**IP-4 (8-10)**					
cis-1,2-Dichloroethene		4.4	J	5.4	ug/Kg	8260B
Tetrachloroethene		1.5	J B	5.4	ug/Kg	8260B
Trichloroethene		1.3	J	5.4	ug/Kg	8260B
Aluminum		4950		11.0	mg/Kg	6010B
Arsenic		2.2		2.2	mg/Kg	6010B
Barium		31.4		0.55	mg/Kg	6010B
Beryllium		0.27		0.22	mg/Kg	6010B
Cadmium		0.049	J	0.22	mg/Kg	6010B
Calcium		20000	B	55.2	mg/Kg	6010B
Chromium		7.0		0.55	mg/Kg	6010B
Cobalt		5.6		0.55	mg/Kg	6010B
Copper		5.2		1.1	mg/Kg	6010B
Iron		10100	B	11.0	mg/Kg	6010B
Lead		1.7		1.1	mg/Kg	6010B
Magnesium		4340		22.1	mg/Kg	6010B
Manganese		348	B	0.22	mg/Kg	6010B
Nickel		12.5		5.5	mg/Kg	6010B
Potassium		787		33.1	mg/Kg	6010B
Selenium		0.56	J	4.4	mg/Kg	6010B
Sodium		52.2	J	155	mg/Kg	6010B
Vanadium		9.0		0.55	mg/Kg	6010B
Zinc		25.0	B	2.2	mg/Kg	6010B
Total Organic Carbon		19100		1090	mg/Kg	Lloyd Kahn
Percent Moisture		7.9		0.10	%	Moisture
Percent Solids		92		0.10	%	Moisture

METHOD SUMMARY

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Closed System Purge and Trap	TAL BUF		SW846 5035
Metals (ICP)	TAL BUF	SW846 6010B	
Preparation, Metals	TAL BUF		SW846 3050B
Mercury (CVAA)	TAL BUF	SW846 7471A	
Preparation, Mercury	TAL BUF		SW846 7471A
Percent Moisture	TAL BUF	EPA Moisture	
Organic Carbon, Total (TOC)	TAL BUR	EPA Lloyd Kahn	

Lab References:

TAL BUF = TestAmerica Buffalo

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method	Analyst	Analyst ID
SW846 8260B	Nguyen-Dudziak, Nhu Quynh	NQN
SW846 8260B	Quirk, Patrick J	PJQ
SW846 6010B	Hanks, Lisa M	LMH
SW846 7471A	Kacalski, Jason R	JRK
EPA Lloyd Kahn	Bednar, Kevin T	KTB
EPA Lloyd Kahn	Pham, Vu T	VTP
EPA Moisture	Goliszek, Gregory T	GTG

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7

Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9891.D
Dilution:	1.0			Initial Weight/Volume:	5.1 g
Analysis Date:	07/29/2013 0354			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.40	5.6
1,1,2,2-Tetrachloroethane		ND		0.90	5.6
1,1,2-Trichloroethane		ND		0.72	5.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	5.6
1,1-Dichloroethane		ND		0.68	5.6
1,1-Dichloroethene		1.7	J	0.68	5.6
1,2,4-Trichlorobenzene		ND		0.34	5.6
1,2-Dibromo-3-Chloropropane		ND		2.8	5.6
1,2-Dibromoethane		ND		0.71	5.6
1,2-Dichlorobenzene		ND		0.43	5.6
1,2-Dichloroethane		ND		0.28	5.6
1,2-Dichloropropane		ND		2.8	5.6
1,3-Dichlorobenzene		ND		0.29	5.6
1,4-Dichlorobenzene		ND		0.78	5.6
2-Hexanone		ND		2.8	28
2-Butanone (MEK)		ND		2.0	28
4-Methyl-2-pentanone (MIBK)		ND		1.8	28
Acetone		21	J	4.7	28
Benzene		ND		0.27	5.6
Bromodichloromethane		ND		0.74	5.6
Bromoform		ND		2.8	5.6
Bromomethane		ND		0.50	5.6
Carbon disulfide		ND		2.8	5.6
Carbon tetrachloride		ND		0.54	5.6
Chlorobenzene		ND		0.73	5.6
Dibromochloromethane		ND		0.71	5.6
Chloroethane		ND		1.3	5.6
Chloroform		ND		0.34	5.6
Chloromethane		ND		0.34	5.6
cis-1,2-Dichloroethene		780	E	0.71	5.6
cis-1,3-Dichloropropene		ND		0.80	5.6
Cyclohexane		ND		0.78	5.6
Dichlorodifluoromethane		ND		0.46	5.6
Ethylbenzene		ND		0.38	5.6
Isopropylbenzene		ND		0.84	5.6
Methyl acetate		ND	*	1.0	5.6
Methyl tert-butyl ether		ND		0.55	5.6
Methylcyclohexane		ND		0.84	5.6
Methylene Chloride		ND		2.6	5.6
Styrene		ND		0.28	5.6
Tetrachloroethene		ND		0.75	5.6
Toluene		0.63	J	0.42	5.6
trans-1,2-Dichloroethene		2.5	J	0.57	5.6
trans-1,3-Dichloropropene		ND		2.4	5.6
Trichloroethene		140		1.2	5.6
Trichlorofluoromethane		ND		0.53	5.6

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7

Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9891.D
Dilution:	1.0			Initial Weight/Volume:	5.1 g
Analysis Date:	07/29/2013 0354			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		63		0.68	5.6
Xylenes, Total		ND		0.93	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
Toluene-d8 (Surr)	100		71 - 125
4-Bromofluorobenzene (Surr)	100		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7

Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9916.D
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	07/29/2013 1642	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		3.8	52
1,1,2,2-Tetrachloroethane		ND		8.5	52
1,1,2-Trichloroethane		ND		6.8	52
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		12	52
1,1-Dichloroethane		ND		6.4	52
1,1-Dichloroethene		ND		6.4	52
1,2,4-Trichlorobenzene		ND		3.2	52
1,2-Dibromo-3-Chloropropane		ND		26	52
1,2-Dibromoethane		ND		6.7	52
1,2-Dichlorobenzene		ND		4.1	52
1,2-Dichloroethane		ND		2.6	52
1,2-Dichloropropane		ND		26	52
1,3-Dichlorobenzene		ND		2.7	52
1,4-Dichlorobenzene		ND		7.3	52
2-Hexanone		ND		26	260
2-Butanone (MEK)		ND		19	260
4-Methyl-2-pentanone (MIBK)		ND		17	260
Acetone		63	J	44	260
Benzene		ND		2.6	52
Bromodichloromethane		ND		7.0	52
Bromoform		ND		26	52
Bromomethane		ND		4.7	52
Carbon disulfide		ND		26	52
Carbon tetrachloride		ND		5.1	52
Chlorobenzene		ND		6.9	52
Dibromochloromethane		ND		6.7	52
Chloroethane		ND		12	52
Chloroform		ND		3.2	52
Chloromethane		ND		3.2	52
cis-1,2-Dichloroethene		340		6.7	52
cis-1,3-Dichloropropene		ND		7.6	52
Cyclohexane		ND		7.3	52
Dichlorodifluoromethane		ND		4.3	52
Ethylbenzene		ND		3.6	52
Isopropylbenzene		ND		7.9	52
Methyl acetate		ND	*	9.8	52
Methyl tert-butyl ether		ND		5.1	52
Methylcyclohexane		ND		8.0	52
Methylene Chloride		ND		24	52
Styrene		ND		2.6	52
Tetrachloroethene		ND		7.0	52
Toluene		ND		4.0	52
trans-1,2-Dichloroethene		ND		5.4	52
trans-1,3-Dichloropropene		ND		23	52
Trichloroethene		69		12	52
Trichlorofluoromethane		ND		5.0	52

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7

Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9916.D
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	07/29/2013 1642	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		6.4	52
Xylenes, Total		ND		8.8	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		64 - 126
Toluene-d8 (Surr)	100		71 - 125
4-Bromofluorobenzene (Surr)	102		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9892.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Analysis Date:	07/29/2013 0419			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.40	5.5
1,1,2,2-Tetrachloroethane		ND		0.89	5.5
1,1,2-Trichloroethane		ND		0.72	5.5
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	5.5
1,1-Dichloroethane		ND		0.67	5.5
1,1-Dichloroethene		ND		0.67	5.5
1,2,4-Trichlorobenzene		ND		0.33	5.5
1,2-Dibromo-3-Chloropropane		ND		2.8	5.5
1,2-Dibromoethane		ND		0.71	5.5
1,2-Dichlorobenzene		ND		0.43	5.5
1,2-Dichloroethane		ND		0.28	5.5
1,2-Dichloropropane		ND		2.8	5.5
1,3-Dichlorobenzene		ND		0.28	5.5
1,4-Dichlorobenzene		ND		0.77	5.5
2-Hexanone		ND		2.8	28
2-Butanone (MEK)		ND		2.0	28
4-Methyl-2-pentanone (MIBK)		ND		1.8	28
Acetone		13	J	4.6	28
Benzene		ND		0.27	5.5
Bromodichloromethane		ND		0.74	5.5
Bromoform		ND		2.8	5.5
Bromomethane		ND		0.50	5.5
Carbon disulfide		ND		2.8	5.5
Carbon tetrachloride		ND		0.53	5.5
Chlorobenzene		ND		0.73	5.5
Dibromochloromethane		ND		0.70	5.5
Chloroethane		ND		1.2	5.5
Chloroform		ND		0.34	5.5
Chloromethane		ND		0.33	5.5
cis-1,2-Dichloroethene		28		0.70	5.5
cis-1,3-Dichloropropene		ND		0.79	5.5
Cyclohexane		ND		0.77	5.5
Dichlorodifluoromethane		ND		0.45	5.5
Ethylbenzene		ND		0.38	5.5
Isopropylbenzene		ND		0.83	5.5
Methyl acetate		ND	*	1.0	5.5
Methyl tert-butyl ether		ND		0.54	5.5
Methylcyclohexane		ND		0.84	5.5
Methylene Chloride		ND		2.5	5.5
Styrene		ND		0.28	5.5
Tetrachloroethene		ND		0.74	5.5
Toluene		ND		0.42	5.5
trans-1,2-Dichloroethene		ND		0.57	5.5
trans-1,3-Dichloropropene		ND		2.4	5.5
Trichloroethene		450	E	1.2	5.5
Trichlorofluoromethane		ND		0.52	5.5

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9892.D
Dilution:	1.0			Initial Weight/Volume:	5.04 g
Analysis Date:	07/29/2013 0419			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.67	5.5
Xylenes, Total		ND		0.93	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
Toluene-d8 (Surr)	99		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9917.D
Dilution:	1.0			Initial Weight/Volume:	0.6 g
Analysis Date:	07/29/2013 1707	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		3.4	46
1,1,2,2-Tetrachloroethane		ND		7.5	46
1,1,2-Trichloroethane		ND		6.0	46
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		11	46
1,1-Dichloroethane		ND		5.6	46
1,1-Dichloroethene		ND		5.7	46
1,2,4-Trichlorobenzene		ND		2.8	46
1,2-Dibromo-3-Chloropropane		ND		23	46
1,2-Dibromoethane		ND		5.9	46
1,2-Dichlorobenzene		ND		3.6	46
1,2-Dichloroethane		ND		2.3	46
1,2-Dichloropropane		ND		23	46
1,3-Dichlorobenzene		ND		2.4	46
1,4-Dichlorobenzene		ND		6.5	46
2-Hexanone		ND		23	230
2-Butanone (MEK)		ND		17	230
4-Methyl-2-pentanone (MIBK)		ND		15	230
Acetone		ND		39	230
Benzene		ND		2.3	46
Bromodichloromethane		ND		6.2	46
Bromoform		ND		23	46
Bromomethane		ND		4.2	46
Carbon disulfide		ND		23	46
Carbon tetrachloride		ND		4.5	46
Chlorobenzene		ND		6.1	46
Dibromochloromethane		ND		5.9	46
Chloroethane		ND		10	46
Chloroform		ND		2.9	46
Chloromethane		ND		2.8	46
cis-1,2-Dichloroethene		20	J	5.9	46
cis-1,3-Dichloropropene		ND		6.7	46
Cyclohexane		ND		6.5	46
Dichlorodifluoromethane		ND		3.8	46
Ethylbenzene		ND		3.2	46
Isopropylbenzene		ND		7.0	46
Methyl acetate		ND	*	8.6	46
Methyl tert-butyl ether		ND		4.5	46
Methylcyclohexane		ND		7.0	46
Methylene Chloride		ND		21	46
Styrene		ND		2.3	46
Tetrachloroethene		ND		6.2	46
Toluene		ND		3.5	46
trans-1,2-Dichloroethene		ND		4.8	46
trans-1,3-Dichloropropene		ND		20	46
Trichloroethene		460		10	46
Trichlorofluoromethane		ND		4.4	46

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9917.D
Dilution:	1.0			Initial Weight/Volume:	0.6 g
Analysis Date:	07/29/2013 1707	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		5.6	46
Xylenes, Total		ND		7.8	93

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		64 - 126
Toluene-d8 (Surr)	99		71 - 125
4-Bromofluorobenzene (Surr)	99		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9893.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Analysis Date:	07/29/2013 0445			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.41	5.7
1,1,2,2-Tetrachloroethane		ND		0.92	5.7
1,1,2-Trichloroethane		ND		0.74	5.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	5.7
1,1-Dichloroethane		ND		0.69	5.7
1,1-Dichloroethene		ND		0.70	5.7
1,2,4-Trichlorobenzene		ND		0.35	5.7
1,2-Dibromo-3-Chloropropane		ND		2.8	5.7
1,2-Dibromoethane		ND		0.73	5.7
1,2-Dichlorobenzene		ND		0.44	5.7
1,2-Dichloroethane		ND		0.29	5.7
1,2-Dichloropropane		ND		2.8	5.7
1,3-Dichlorobenzene		ND		0.29	5.7
1,4-Dichlorobenzene		ND		0.80	5.7
2-Hexanone		ND		2.8	28
2-Butanone (MEK)		ND		2.1	28
4-Methyl-2-pentanone (MIBK)		ND		1.9	28
Acetone		12	J	4.8	28
Benzene		ND		0.28	5.7
Bromodichloromethane		ND		0.76	5.7
Bromoform		ND		2.8	5.7
Bromomethane		ND		0.51	5.7
Carbon disulfide		ND		2.8	5.7
Carbon tetrachloride		ND		0.55	5.7
Chlorobenzene		ND		0.75	5.7
Dibromochloromethane		ND		0.73	5.7
Chloroethane		ND		1.3	5.7
Chloroform		ND		0.35	5.7
Chloromethane		ND		0.34	5.7
cis-1,2-Dichloroethene		81		0.73	5.7
cis-1,3-Dichloropropene		ND		0.82	5.7
Cyclohexane		ND		0.80	5.7
Dichlorodifluoromethane		ND		0.47	5.7
Ethylbenzene		ND		0.39	5.7
Isopropylbenzene		ND		0.86	5.7
Methyl acetate		ND	*	1.1	5.7
Methyl tert-butyl ether		ND		0.56	5.7
Methylcyclohexane		ND		0.86	5.7
Methylene Chloride		ND		2.6	5.7
Styrene		ND		0.28	5.7
Tetrachloroethene		ND		0.76	5.7
Toluene		ND		0.43	5.7
trans-1,2-Dichloroethene		ND		0.59	5.7
trans-1,3-Dichloropropene		ND		2.5	5.7
Trichloroethene		1500	E	1.2	5.7
Trichlorofluoromethane		ND		0.54	5.7

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9893.D
Dilution:	1.0			Initial Weight/Volume:	5.16 g
Analysis Date:	07/29/2013 0445			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		1.5	J	0.69	5.7
Xylenes, Total		ND		0.95	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
Toluene-d8 (Surr)	100		71 - 125
4-Bromofluorobenzene (Surr)	100		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Prep Method:	5035	Prep Batch:	480-131602	Lab File ID:	G25227.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Analysis Date:	07/31/2013 1323	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		32	110
1,1,2,2-Tetrachloroethane		ND		19	110
1,1,2-Trichloroethane		ND		24	110
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		57	110
1,1-Dichloroethane		ND		35	110
1,1-Dichloroethene		ND		40	110
1,2,4-Trichlorobenzene		ND		43	110
1,2-Dibromo-3-Chloropropane		ND		57	110
1,2-Dibromoethane		ND		4.4	110
1,2-Dichlorobenzene		ND		29	110
1,2-Dichloroethane		ND		47	110
1,2-Dichloropropane		ND		19	110
1,3-Dichlorobenzene		ND		31	110
1,4-Dichlorobenzene		ND		16	110
2-Hexanone		ND		240	570
2-Butanone (MEK)		ND		340	570
4-Methyl-2-pentanone (MIBK)		ND		37	570
Acetone		ND		470	570
Benzene		ND		5.5	110
Bromodichloromethane		ND		23	110
Bromoform		ND		57	110
Bromomethane		ND		25	110
Carbon disulfide		ND		52	110
Carbon tetrachloride		ND		29	110
Chlorobenzene		ND		15	110
Dibromochloromethane		ND		56	110
Chloroethane		ND		24	110
Chloroform		ND		79	110
Chloromethane		ND		27	110
cis-1,2-Dichloroethene		ND		32	110
cis-1,3-Dichloropropene		ND		27	110
Cyclohexane		ND		25	110
Dichlorodifluoromethane		ND		50	110
Ethylbenzene		ND		33	110
Isopropylbenzene		ND		17	110
Methyl acetate		ND		55	110
Methyl tert-butyl ether		ND		43	110
Methylcyclohexane		ND		54	110
Methylene Chloride		ND		23	110
Styrene		ND		28	110
Tetrachloroethene		ND		15	110
Toluene		ND		31	110
trans-1,2-Dichloroethene		ND		27	110
trans-1,3-Dichloropropene		ND		5.5	110
Trichloroethene		1000		32	110
Trichlorofluoromethane		ND		54	110

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Prep Method:	5035	Prep Batch:	480-131602	Lab File ID:	G25227.D
Dilution:	1.0			Initial Weight/Volume:	5.11 g
Analysis Date:	07/31/2013 1323	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		38	110
Xylenes, Total		ND		19	230

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		53 - 146
Toluene-d8 (Surr)	109		50 - 149
4-Bromofluorobenzene (Surr)	107		49 - 148

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9894.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Analysis Date:	07/29/2013 0510			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.41	5.6
1,1,2,2-Tetrachloroethane		ND		0.91	5.6
1,1,2-Trichloroethane		ND		0.73	5.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	5.6
1,1-Dichloroethane		ND		0.68	5.6
1,1-Dichloroethene		ND		0.69	5.6
1,2,4-Trichlorobenzene		ND		0.34	5.6
1,2-Dibromo-3-Chloropropane		ND		2.8	5.6
1,2-Dibromoethane		ND		0.72	5.6
1,2-Dichlorobenzene		ND		0.44	5.6
1,2-Dichloroethane		ND		0.28	5.6
1,2-Dichloropropane		ND		2.8	5.6
1,3-Dichlorobenzene		ND		0.29	5.6
1,4-Dichlorobenzene		ND		0.79	5.6
2-Hexanone		ND		2.8	28
2-Butanone (MEK)		ND		2.1	28
4-Methyl-2-pentanone (MIBK)		ND		1.8	28
Acetone		11	J	4.7	28
Benzene		ND		0.27	5.6
Bromodichloromethane		ND		0.75	5.6
Bromoform		ND		2.8	5.6
Bromomethane		ND		0.50	5.6
Carbon disulfide		ND		2.8	5.6
Carbon tetrachloride		ND		0.54	5.6
Chlorobenzene		ND		0.74	5.6
Dibromochloromethane		ND		0.72	5.6
Chloroethane		ND		1.3	5.6
Chloroform		ND		0.35	5.6
Chloromethane		ND		0.34	5.6
cis-1,2-Dichloroethene		9.6		0.72	5.6
cis-1,3-Dichloropropene		ND		0.81	5.6
Cyclohexane		ND		0.79	5.6
Dichlorodifluoromethane		ND		0.46	5.6
Ethylbenzene		ND		0.39	5.6
Isopropylbenzene		ND		0.85	5.6
Methyl acetate		ND	*	1.0	5.6
Methyl tert-butyl ether		ND		0.55	5.6
Methylcyclohexane		ND		0.85	5.6
Methylene Chloride		ND		2.6	5.6
Styrene		ND		0.28	5.6
Tetrachloroethene		ND		0.75	5.6
Toluene		0.60	J	0.42	5.6
trans-1,2-Dichloroethene		ND		0.58	5.6
trans-1,3-Dichloropropene		ND		2.5	5.6
Trichloroethene		2500	E	1.2	5.6
Trichlorofluoromethane		ND		0.53	5.6

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9894.D
Dilution:	1.0			Initial Weight/Volume:	5.08 g
Analysis Date:	07/29/2013 0510			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.68	5.6
Xylenes, Total		ND		0.94	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		64 - 126
Toluene-d8 (Surr)	103		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Prep Method:	5035	Prep Batch:	480-131602	Lab File ID:	G25228.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Analysis Date:	07/31/2013 1346	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		32	110
1,1,2,2-Tetrachloroethane		ND		18	110
1,1,2-Trichloroethane		ND		24	110
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		57	110
1,1-Dichloroethane		ND		35	110
1,1-Dichloroethene		ND		39	110
1,2,4-Trichlorobenzene		ND		43	110
1,2-Dibromo-3-Chloropropane		ND		57	110
1,2-Dibromoethane		ND		4.3	110
1,2-Dichlorobenzene		ND		29	110
1,2-Dichloroethane		ND		47	110
1,2-Dichloropropane		ND		18	110
1,3-Dichlorobenzene		ND		30	110
1,4-Dichlorobenzene		ND		16	110
2-Hexanone		ND		230	570
2-Butanone (MEK)		ND		340	570
4-Methyl-2-pentanone (MIBK)		ND		36	570
Acetone		ND		470	570
Benzene		ND		5.5	110
Bromodichloromethane		ND		23	110
Bromoform		ND		57	110
Bromomethane		ND		25	110
Carbon disulfide		ND		52	110
Carbon tetrachloride		ND		29	110
Chlorobenzene		ND		15	110
Dibromochloromethane		ND		55	110
Chloroethane		ND		24	110
Chloroform		ND		78	110
Chloromethane		ND		27	110
cis-1,2-Dichloroethene		ND		31	110
cis-1,3-Dichloropropene		ND		27	110
Cyclohexane		ND		25	110
Dichlorodifluoromethane		ND		50	110
Ethylbenzene		ND		33	110
Isopropylbenzene		ND		17	110
Methyl acetate		ND		54	110
Methyl tert-butyl ether		ND		43	110
Methylcyclohexane		ND		53	110
Methylene Chloride		ND		23	110
Styrene		ND		27	110
Tetrachloroethene		ND		15	110
Toluene		ND		30	110
trans-1,2-Dichloroethene		ND		27	110
trans-1,3-Dichloropropene		ND		5.5	110
Trichloroethene		2000		32	110
Trichlorofluoromethane		ND		53	110

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Prep Method:	5035	Prep Batch:	480-131602	Lab File ID:	G25228.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Analysis Date:	07/31/2013 1346	Run Type:	DL	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		38	110
Xylenes, Total		ND		19	230

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		53 - 146
Toluene-d8 (Surr)	105		50 - 149
4-Bromofluorobenzene (Surr)	102		49 - 148

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-1 (10-12)**

Lab Sample ID: 480-42724-5
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 07/26/2013 0730
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9895.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Analysis Date:	07/29/2013 0536			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.39	5.4
1,1,2,2-Tetrachloroethane		ND		0.88	5.4
1,1,2-Trichloroethane		ND		0.71	5.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	5.4
1,1-Dichloroethane		ND		0.66	5.4
1,1-Dichloroethene		ND		0.66	5.4
1,2,4-Trichlorobenzene		ND		0.33	5.4
1,2-Dibromo-3-Chloropropane		ND		2.7	5.4
1,2-Dibromoethane		ND		0.70	5.4
1,2-Dichlorobenzene		ND		0.42	5.4
1,2-Dichloroethane		ND		0.27	5.4
1,2-Dichloropropane		ND		2.7	5.4
1,3-Dichlorobenzene		ND		0.28	5.4
1,4-Dichlorobenzene		ND		0.76	5.4
2-Hexanone		ND		2.7	27
2-Butanone (MEK)		ND		2.0	27
4-Methyl-2-pentanone (MIBK)		ND		1.8	27
Acetone		ND		4.6	27
Benzene		ND		0.27	5.4
Bromodichloromethane		ND		0.73	5.4
Bromoform		ND		2.7	5.4
Bromomethane		ND		0.49	5.4
Carbon disulfide		ND		2.7	5.4
Carbon tetrachloride		ND		0.53	5.4
Chlorobenzene		ND		0.72	5.4
Dibromochloromethane		ND		0.70	5.4
Chloroethane		ND		1.2	5.4
Chloroform		ND		0.34	5.4
Chloromethane		ND		0.33	5.4
cis-1,2-Dichloroethene		6.2		0.70	5.4
cis-1,3-Dichloropropene		ND		0.78	5.4
Cyclohexane		ND		0.76	5.4
Dichlorodifluoromethane		ND		0.45	5.4
Ethylbenzene		ND		0.37	5.4
Isopropylbenzene		ND		0.82	5.4
Methyl acetate		ND	*	1.0	5.4
Methyl tert-butyl ether		ND		0.53	5.4
Methylcyclohexane		ND		0.83	5.4
Methylene Chloride		ND		2.5	5.4
Styrene		ND		0.27	5.4
Tetrachloroethene		ND		0.73	5.4
Toluene		ND		0.41	5.4
trans-1,2-Dichloroethene		ND		0.56	5.4
trans-1,3-Dichloropropene		ND		2.4	5.4
Trichloroethene		3.2	J	1.2	5.4
Trichlorofluoromethane		ND		0.51	5.4

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-1 (10-12)**

Lab Sample ID: 480-42724-5
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 07/26/2013 0730
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9895.D
Dilution:	1.0			Initial Weight/Volume:	5.18 g
Analysis Date:	07/29/2013 0536			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.66	5.4
Xylenes, Total		ND		0.91	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 126
Toluene-d8 (Surr)	98		71 - 125
4-Bromofluorobenzene (Surr)	100		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9896.D
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Analysis Date:	07/29/2013 0601			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.43	6.0
1,1,2,2-Tetrachloroethane		ND		0.97	6.0
1,1,2-Trichloroethane		ND		0.78	6.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.4	6.0
1,1-Dichloroethane		ND		0.73	6.0
1,1-Dichloroethene		ND		0.73	6.0
1,2,4-Trichlorobenzene		ND		0.36	6.0
1,2-Dibromo-3-Chloropropane		ND		3.0	6.0
1,2-Dibromoethane		ND		0.77	6.0
1,2-Dichlorobenzene		ND		0.47	6.0
1,2-Dichloroethane		ND		0.30	6.0
1,2-Dichloropropane		ND		3.0	6.0
1,3-Dichlorobenzene		ND		0.31	6.0
1,4-Dichlorobenzene		ND		0.84	6.0
2-Hexanone		ND		3.0	30
2-Butanone (MEK)		ND		2.2	30
4-Methyl-2-pentanone (MIBK)		ND		2.0	30
Acetone		5.1	J	5.0	30
Benzene		ND		0.29	6.0
Bromodichloromethane		ND		0.80	6.0
Bromoform		ND		3.0	6.0
Bromomethane		ND		0.54	6.0
Carbon disulfide		ND		3.0	6.0
Carbon tetrachloride		ND		0.58	6.0
Chlorobenzene		ND		0.79	6.0
Dibromochloromethane		ND		0.76	6.0
Chloroethane		ND		1.4	6.0
Chloroform		ND		0.37	6.0
Chloromethane		ND		0.36	6.0
cis-1,2-Dichloroethene		530	E	0.76	6.0
cis-1,3-Dichloropropene		ND		0.86	6.0
Cyclohexane		ND		0.84	6.0
Dichlorodifluoromethane		ND		0.49	6.0
Ethylbenzene		ND		0.41	6.0
Isopropylbenzene		ND		0.90	6.0
Methyl acetate		ND	*	1.1	6.0
Methyl tert-butyl ether		ND		0.59	6.0
Methylcyclohexane		ND		0.91	6.0
Methylene Chloride		ND		2.7	6.0
Styrene		ND		0.30	6.0
Tetrachloroethene		ND		0.80	6.0
Toluene		ND		0.45	6.0
trans-1,2-Dichloroethene		1.9	J	0.62	6.0
trans-1,3-Dichloropropene		ND		2.6	6.0
Trichloroethene		15		1.3	6.0
Trichlorofluoromethane		ND		0.57	6.0

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131088	Lab File ID:	F9896.D
Dilution:	1.0			Initial Weight/Volume:	5.14 g
Analysis Date:	07/29/2013 0601			Final Weight/Volume:	5 g
Prep Date:	07/28/2013 2350				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		21		0.73	6.0
Xylenes, Total		ND		1.0	12

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		64 - 126
Toluene-d8 (Surr)	100		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9918.D
Dilution:	1.0			Initial Weight/Volume:	0.57 g
Analysis Date:	07/29/2013 1733	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		3.9	54
1,1,2,2-Tetrachloroethane		ND		8.7	54
1,1,2-Trichloroethane		ND		7.0	54
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		12	54
1,1-Dichloroethane		ND		6.6	54
1,1-Dichloroethene		ND		6.6	54
1,2,4-Trichlorobenzene		ND		3.3	54
1,2-Dibromo-3-Chloropropane		ND		27	54
1,2-Dibromoethane		ND		6.9	54
1,2-Dichlorobenzene		ND		4.2	54
1,2-Dichloroethane		ND		2.7	54
1,2-Dichloropropane		ND		27	54
1,3-Dichlorobenzene		ND		2.8	54
1,4-Dichlorobenzene		ND		7.5	54
2-Hexanone		ND		27	270
2-Butanone (MEK)		ND		20	270
4-Methyl-2-pentanone (MIBK)		ND		18	270
Acetone		ND		45	270
Benzene		ND		2.6	54
Bromodichloromethane		ND		7.2	54
Bromoform		ND		27	54
Bromomethane		ND		4.8	54
Carbon disulfide		ND		27	54
Carbon tetrachloride		ND		5.2	54
Chlorobenzene		ND		7.1	54
Dibromochloromethane		ND		6.9	54
Chloroethane		ND		12	54
Chloroform		ND		3.3	54
Chloromethane		ND		3.3	54
cis-1,2-Dichloroethene		220		6.9	54
cis-1,3-Dichloropropene		ND		7.8	54
Cyclohexane		ND		7.5	54
Dichlorodifluoromethane		ND		4.5	54
Ethylbenzene		ND		3.7	54
Isopropylbenzene		ND		8.1	54
Methyl acetate		ND	*	10	54
Methyl tert-butyl ether		ND		5.3	54
Methylcyclohexane		ND		8.2	54
Methylene Chloride		ND		25	54
Styrene		ND		2.7	54
Tetrachloroethene		ND		7.2	54
Toluene		ND		4.1	54
trans-1,2-Dichloroethene		ND		5.6	54
trans-1,3-Dichloropropene		ND		24	54
Trichloroethene		ND		12	54
Trichlorofluoromethane		ND		5.1	54

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131167	Lab File ID:	F9918.D
Dilution:	1.0			Initial Weight/Volume:	0.57 g
Analysis Date:	07/29/2013 1733	Run Type:	DL	Final Weight/Volume:	5 g
Prep Date:	07/29/2013 1208				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		6.6	54
Xylenes, Total		ND		9.1	110

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		64 - 126
Toluene-d8 (Surr)	97		71 - 125
4-Bromofluorobenzene (Surr)	98		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-2 (8-10)**

Lab Sample ID: 480-42943-1
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 07/26/2013 1315
Date Received: 07/31/2013 1650

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131878	Lab File ID:	F0044.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Analysis Date:	08/02/2013 0617			Final Weight/Volume:	5 g
Prep Date:	08/01/2013 1244				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.41	5.6
1,1,2,2-Tetrachloroethane		ND		0.91	5.6
1,1,2-Trichloroethane		ND		0.73	5.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.3	5.6
1,1-Dichloroethane		ND		0.68	5.6
1,1-Dichloroethene		ND		0.69	5.6
1,2,4-Trichlorobenzene		ND		0.34	5.6
1,2-Dibromo-3-Chloropropane		ND		2.8	5.6
1,2-Dibromoethane		ND		0.72	5.6
1,2-Dichlorobenzene		ND		0.44	5.6
1,2-Dichloroethane		ND		0.28	5.6
1,2-Dichloropropane		ND		2.8	5.6
1,3-Dichlorobenzene		ND		0.29	5.6
1,4-Dichlorobenzene		ND		0.79	5.6
2-Hexanone		ND		2.8	28
2-Butanone (MEK)		ND		2.1	28
4-Methyl-2-pentanone (MIBK)		ND		1.8	28
Acetone		6.1	J	4.7	28
Benzene		ND		0.27	5.6
Bromodichloromethane		ND		0.75	5.6
Bromoform		ND		2.8	5.6
Bromomethane		ND		0.50	5.6
Carbon disulfide		ND		2.8	5.6
Carbon tetrachloride		ND		0.54	5.6
Chlorobenzene		ND		0.74	5.6
Dibromochloromethane		ND		0.72	5.6
Chloroethane		ND		1.3	5.6
Chloroform		ND		0.35	5.6
Chloromethane		ND		0.34	5.6
cis-1,2-Dichloroethene		ND		0.72	5.6
cis-1,3-Dichloropropene		ND		0.81	5.6
Cyclohexane		ND		0.79	5.6
Dichlorodifluoromethane		ND		0.46	5.6
Ethylbenzene		ND		0.39	5.6
Isopropylbenzene		ND		0.85	5.6
Methyl acetate		ND		1.0	5.6
Methyl tert-butyl ether		ND		0.55	5.6
Methylcyclohexane		ND		0.85	5.6
Methylene Chloride		ND		2.6	5.6
Styrene		ND		0.28	5.6
Tetrachloroethene		1.5	J B	0.75	5.6
Toluene		ND		0.42	5.6
trans-1,2-Dichloroethene		ND		0.58	5.6
trans-1,3-Dichloropropene		ND		2.5	5.6
Trichloroethene		ND		1.2	5.6
Trichlorofluoromethane		ND		0.53	5.6

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-2 (8-10)**

Lab Sample ID: 480-42943-1
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 07/26/2013 1315
Date Received: 07/31/2013 1650

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131878	Lab File ID:	F0044.D
Dilution:	1.0			Initial Weight/Volume:	5.01 g
Analysis Date:	08/02/2013 0617			Final Weight/Volume:	5 g
Prep Date:	08/01/2013 1244				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.68	5.6
Xylenes, Total		ND		0.94	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 126
Toluene-d8 (Surr)	104		71 - 125
4-Bromofluorobenzene (Surr)	102		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-4 (8-10)**

Lab Sample ID: 480-42943-2
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 07/29/2013 1430
Date Received: 07/31/2013 1650

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131878	Lab File ID:	F0045.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Analysis Date:	08/02/2013 0642			Final Weight/Volume:	5 g
Prep Date:	08/01/2013 1244				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
1,1,1-Trichloroethane		ND		0.39	5.4
1,1,2,2-Tetrachloroethane		ND		0.88	5.4
1,1,2-Trichloroethane		ND		0.71	5.4
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		1.2	5.4
1,1-Dichloroethane		ND		0.66	5.4
1,1-Dichloroethene		ND		0.66	5.4
1,2,4-Trichlorobenzene		ND		0.33	5.4
1,2-Dibromo-3-Chloropropane		ND		2.7	5.4
1,2-Dibromoethane		ND		0.70	5.4
1,2-Dichlorobenzene		ND		0.42	5.4
1,2-Dichloroethane		ND		0.27	5.4
1,2-Dichloropropane		ND		2.7	5.4
1,3-Dichlorobenzene		ND		0.28	5.4
1,4-Dichlorobenzene		ND		0.76	5.4
2-Hexanone		ND		2.7	27
2-Butanone (MEK)		ND		2.0	27
4-Methyl-2-pentanone (MIBK)		ND		1.8	27
Acetone		ND		4.6	27
Benzene		ND		0.27	5.4
Bromodichloromethane		ND		0.73	5.4
Bromoform		ND		2.7	5.4
Bromomethane		ND		0.49	5.4
Carbon disulfide		ND		2.7	5.4
Carbon tetrachloride		ND		0.53	5.4
Chlorobenzene		ND		0.72	5.4
Dibromochloromethane		ND		0.70	5.4
Chloroethane		ND		1.2	5.4
Chloroform		ND		0.34	5.4
Chloromethane		ND		0.33	5.4
cis-1,2-Dichloroethene		4.4	J	0.70	5.4
cis-1,3-Dichloropropene		ND		0.78	5.4
Cyclohexane		ND		0.76	5.4
Dichlorodifluoromethane		ND		0.45	5.4
Ethylbenzene		ND		0.37	5.4
Isopropylbenzene		ND		0.82	5.4
Methyl acetate		ND		1.0	5.4
Methyl tert-butyl ether		ND		0.53	5.4
Methylcyclohexane		ND		0.83	5.4
Methylene Chloride		ND		2.5	5.4
Styrene		ND		0.27	5.4
Tetrachloroethene		1.5	J B	0.73	5.4
Toluene		ND		0.41	5.4
trans-1,2-Dichloroethene		ND		0.56	5.4
trans-1,3-Dichloropropene		ND		2.4	5.4
Trichloroethene		1.3	J	1.2	5.4
Trichlorofluoromethane		ND		0.51	5.4

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-4 (8-10)**

Lab Sample ID: 480-42943-2
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 07/29/2013 1430
Date Received: 07/31/2013 1650

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Prep Method:	5035	Prep Batch:	480-131878	Lab File ID:	F0045.D
Dilution:	1.0			Initial Weight/Volume:	5 g
Analysis Date:	08/02/2013 0642			Final Weight/Volume:	5 g
Prep Date:	08/01/2013 1244				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Vinyl chloride		ND		0.66	5.4
Xylenes, Total		ND		0.91	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 126
Toluene-d8 (Surr)	102		71 - 125
4-Bromofluorobenzene (Surr)	101		72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7

Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5189 g
Analysis Date:	07/30/2013 1346			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5230		4.8	10.9
Antimony		ND		0.44	16.4
Arsenic		2.9		0.44	2.2
Barium		36.1		0.12	0.55
Beryllium		0.30		0.031	0.22
Cadmium		0.25	B	0.033	0.22
Calcium		33600	B	3.6	54.6
Chromium		7.3		0.22	0.55
Cobalt		4.6		0.055	0.55
Copper		8.9		0.23	1.1
Iron		9580	B	1.2	10.9
Lead		7.6		0.26	1.1
Magnesium		13400	B	1.0	21.8
Manganese		286		0.035	0.22
Nickel		10.7		0.25	5.5
Potassium		835		21.8	32.7
Selenium		ND		0.44	4.4
Silver		ND		0.22	0.55
Sodium		115	J	14.2	153
Thallium		ND		0.33	6.5
Vanadium		10.6		0.12	0.55
Zinc		28.6	B	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6062 g
Analysis Date:	07/30/2013 1257			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.024		0.0091	0.022

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4984 g
Analysis Date:	07/30/2013 1349			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4340		4.9	11.1
Antimony		ND		0.45	16.7
Arsenic		3.0		0.45	2.2
Barium		25.9		0.12	0.56
Beryllium		0.24		0.031	0.22
Cadmium		0.11	J B	0.033	0.22
Calcium		70400	B	3.7	55.7
Chromium		7.2		0.22	0.56
Cobalt		3.8		0.056	0.56
Copper		10.3		0.23	1.1
Iron		9270	B	1.2	11.1
Lead		7.7		0.27	1.1
Magnesium		22600	B	1.0	22.3
Manganese		459		0.036	0.22
Nickel		8.8		0.26	5.6
Potassium		931		22.3	33.4
Selenium		0.55	J	0.45	4.5
Silver		ND		0.22	0.56
Sodium		158		14.5	156
Thallium		ND		0.33	6.7
Vanadium		9.5		0.12	0.56
Zinc		23.5	B	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6028 g
Analysis Date:	07/30/2013 1304			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.0090	0.022

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5132 g
Analysis Date:	07/30/2013 1352			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5080		5.0	11.4
Antimony		ND		0.46	17.1
Arsenic		3.0		0.46	2.3
Barium		44.2		0.13	0.57
Beryllium		0.33		0.032	0.23
Cadmium		0.12	J B	0.034	0.23
Calcium		45700	B	3.8	57.1
Chromium		8.8		0.23	0.57
Cobalt		4.8		0.057	0.57
Copper		10.4		0.24	1.1
Iron		10200	B	1.3	11.4
Lead		18.7		0.27	1.1
Magnesium		17900	B	1.1	22.8
Manganese		372		0.037	0.23
Nickel		10.2		0.26	5.7
Potassium		948		22.8	34.3
Selenium		0.59	J	0.46	4.6
Silver		ND		0.23	0.57
Sodium		144	J	14.8	160
Thallium		ND		0.34	6.9
Vanadium		11.9		0.13	0.57
Zinc		29.9	B	0.17	2.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6110 g
Analysis Date:	07/30/2013 1309			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018	J	0.0093	0.023

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5263 g
Analysis Date:	07/30/2013 1354			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4310		4.8	10.8
Antimony		ND		0.43	16.2
Arsenic		3.2		0.43	2.2
Barium		38.3		0.12	0.54
Beryllium		0.27		0.030	0.22
Cadmium		0.061	J B	0.032	0.22
Calcium		44100	B	3.6	54.1
Chromium		8.1		0.22	0.54
Cobalt		4.7		0.054	0.54
Copper		7.7		0.23	1.1
Iron		9670	B	1.2	10.8
Lead		2.6		0.26	1.1
Magnesium		13500	B	1.0	21.7
Manganese		322		0.035	0.22
Nickel		9.8		0.25	5.4
Potassium		914		21.7	32.5
Selenium		0.74	J	0.43	4.3
Silver		ND		0.22	0.54
Sodium		160		14.1	152
Thallium		ND		0.32	6.5
Vanadium		11.3		0.12	0.54
Zinc		19.4	B	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6326 g
Analysis Date:	07/30/2013 1311			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.0088	0.022

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-1 (10-12)**

Lab Sample ID: 480-42724-5
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 07/26/2013 0730
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4889 g
Analysis Date:	07/30/2013 1357			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4820		5.1	11.5
Antimony		ND		0.46	17.3
Arsenic		2.7		0.46	2.3
Barium		45.3		0.13	0.58
Beryllium		0.25		0.032	0.23
Cadmium		0.062	J B	0.035	0.23
Calcium		22500	B	3.8	57.6
Chromium		7.1		0.23	0.58
Cobalt		5.0		0.058	0.58
Copper		6.5		0.24	1.2
Iron		9170	B	1.3	11.5
Lead		1.7		0.28	1.2
Magnesium		4780	B	1.1	23.0
Manganese		402		0.037	0.23
Nickel		10.4		0.26	5.8
Potassium		924		23.0	34.5
Selenium		ND		0.46	4.6
Silver		ND		0.23	0.58
Sodium		76.9	J	15.0	161
Thallium		ND		0.35	6.9
Vanadium		9.6		0.13	0.58
Zinc		21.6	B	0.18	2.3

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6025 g
Analysis Date:	07/30/2013 1312			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.0091	0.022

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4699 g
Analysis Date:	07/30/2013 1400			Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9700		5.8	13.1
Antimony		ND		0.52	19.6
Arsenic		3.6		0.52	2.6
Barium		121		0.14	0.65
Beryllium		0.54		0.037	0.26
Cadmium		0.090	J B	0.039	0.26
Calcium		49400	B	4.3	65.4
Chromium		14.3		0.26	0.65
Cobalt		9.7		0.065	0.65
Copper		15.9		0.27	1.3
Iron		16100	B	1.4	13.1
Lead		7.7		0.31	1.3
Magnesium		11600	B	1.2	26.1
Manganese		448		0.042	0.26
Nickel		20.2		0.30	6.5
Potassium		1810		26.1	39.2
Selenium		0.87	J	0.52	5.2
Silver		ND		0.26	0.65
Sodium		170	J	17.0	183
Thallium		ND		0.39	7.8
Vanadium		18.7		0.14	0.65
Zinc		45.0	B	0.20	2.6

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.5809 g
Analysis Date:	07/30/2013 1314			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.010	0.025

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **MP-2 (8-10)**

Lab Sample ID: 480-42943-1
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 07/26/2013 1315
Date Received: 07/31/2013 1650

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-132123	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131879	Lab File ID:	I1080213A-2.asc
Dilution:	1.0			Initial Weight/Volume:	+0.5278 g
Analysis Date:	08/02/2013 1153			Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3360		4.7	10.6
Antimony		ND		0.43	16.0
Arsenic		2.3		0.43	2.1
Barium		36.6		0.12	0.53
Beryllium		0.21		0.030	0.21
Cadmium		0.043	J	0.032	0.21
Calcium		31600	B	3.5	53.2
Chromium		5.8		0.21	0.53
Cobalt		3.4		0.053	0.53
Copper		7.9		0.22	1.1
Iron		8110	B	1.2	10.6
Lead		1.8		0.26	1.1
Magnesium		8220		0.99	21.3
Manganese		302	B	0.034	0.21
Nickel		7.4		0.24	5.3
Potassium		671		21.3	31.9
Selenium		ND		0.43	4.3
Silver		ND		0.21	0.53
Sodium		121	J	13.8	149
Thallium		ND		0.32	6.4
Vanadium		9.5		0.12	0.53
Zinc		15.8	B	0.16	2.1

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131904	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131857	Lab File ID:	J08013S2.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6609 g
Analysis Date:	08/01/2013 1403			Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1150				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.0083	0.020

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Client Sample ID: **IP-4 (8-10)**

Lab Sample ID: 480-42943-2
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 07/29/2013 1430
Date Received: 07/31/2013 1650

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-132123	Instrument ID:	ICAP1
Prep Method:	3050B	Prep Batch:	480-131879	Lab File ID:	I1080213A-2.asc
Dilution:	1.0			Initial Weight/Volume:	+0.4918 g
Analysis Date:	08/02/2013 1155			Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1415				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4950		4.9	11.0
Antimony		ND		0.44	16.6
Arsenic		2.2		0.44	2.2
Barium		31.4		0.12	0.55
Beryllium		0.27		0.031	0.22
Cadmium		0.049	J	0.033	0.22
Calcium		20000	B	3.6	55.2
Chromium		7.0		0.22	0.55
Cobalt		5.6		0.055	0.55
Copper		5.2		0.23	1.1
Iron		10100	B	1.2	11.0
Lead		1.7		0.27	1.1
Magnesium		4340		1.0	22.1
Manganese		348	B	0.035	0.22
Nickel		12.5		0.25	5.5
Potassium		787		22.1	33.1
Selenium		0.56	J	0.44	4.4
Silver		ND		0.22	0.55
Sodium		52.2	J	14.4	155
Thallium		ND		0.33	6.6
Vanadium		9.0		0.12	0.55
Zinc		25.0	B	0.17	2.2

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	480-131904	Instrument ID:	LEEMAN3
Prep Method:	7471A	Prep Batch:	480-131857	Lab File ID:	J08013S2.PRN
Dilution:	1.0			Initial Weight/Volume:	+0.6505 g
Analysis Date:	08/01/2013 1409			Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1150				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		ND		0.0081	0.020

General Chemistry

Client Sample ID: **SVE-1 (10-14)**

Lab Sample ID: 480-42724-1
Client Matrix: Solid
% Moisture: 11.7
Date Sampled: 07/22/2013 1530
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	3890		mg/Kg	1130	1130	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2200						DryWt Corrected: Y
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **SVE-2 (12-14)**

Lab Sample ID: 480-42724-2
Client Matrix: Solid
% Moisture: 9.9

Date Sampled: 07/23/2013 1030
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	3710		mg/Kg	1110	1110	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2215						DryWt Corrected: Y
Percent Moisture	9.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	90		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **IP-2 (14-16)**

Lab Sample ID: 480-42724-3
Client Matrix: Solid
% Moisture: 14.7

Date Sampled: 07/24/2013 0930
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	6840		mg/Kg	1170	1170	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2259						DryWt Corrected: Y
Percent Moisture	15		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	85		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **IP-1 (16-18)**

Lab Sample ID: 480-42724-4
Client Matrix: Solid
% Moisture: 12.3

Date Sampled: 07/25/2013 0830
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	2580		mg/Kg	1140	1140	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2314						DryWt Corrected: Y
Percent Moisture	12		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	88		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **MP-1 (10-12)**

Lab Sample ID: 480-42724-5
Client Matrix: Solid
% Moisture: 11.2

Date Sampled: 07/26/2013 0730
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	ND		mg/Kg	1130	1130	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2328						DryWt Corrected: Y
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **IP-3 (8-10)**

Lab Sample ID: 480-42724-6
Client Matrix: Solid
% Moisture: 18.6

Date Sampled: 07/26/2013 1115
Date Received: 07/26/2013 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	3810		mg/Kg	1230	1230	1.0	Lloyd Kahn
Analysis Batch: 200-59382	Analysis Date: 08/05/2013 2343						DryWt Corrected: Y
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-130967	Analysis Date: 07/26/2013 2056						DryWt Corrected: N

General Chemistry

Client Sample ID: **MP-2 (8-10)**

Lab Sample ID: 480-42943-1
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 07/26/2013 1315
Date Received: 07/31/2013 1650

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	11700		mg/Kg	1120	1120	1.0	Lloyd Kahn
Analysis Batch: 200-59873	Analysis Date: 08/09/2013 1228						DryWt Corrected: Y
Percent Moisture	11		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-131686	Analysis Date: 07/31/2013 2146						DryWt Corrected: N
Percent Solids	89		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-131686	Analysis Date: 07/31/2013 2146						DryWt Corrected: N

General Chemistry

Client Sample ID: **IP-4 (8-10)**

Lab Sample ID: 480-42943-2
Client Matrix: Solid
% Moisture: 7.9

Date Sampled: 07/29/2013 1430
Date Received: 07/31/2013 1650

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	19100		mg/Kg	1090	1090	1.0	Lloyd Kahn
Analysis Batch: 200-59873	Analysis Date: 08/09/2013 1241						DryWt Corrected: Y
Percent Moisture	7.9		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-131686	Analysis Date: 07/31/2013 2146						DryWt Corrected: N
Percent Solids	92		%	0.10	0.10	1.0	Moisture
Analysis Batch: 480-131686	Analysis Date: 07/31/2013 2146						DryWt Corrected: N

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-42724-1	SVE-1 (10-14)	103	100	100
480-42724-1 DL	SVE-1 (10-14) DL	87	100	102
480-42724-2	SVE-2 (12-14)	101	99	101
480-42724-2 DL	SVE-2 (12-14) DL	86	99	99
480-42724-3	IP-2 (14-16)	103	100	100
480-42724-4	IP-1 (16-18)	106	103	101
480-42724-5	MP-1 (10-12)	103	98	100
480-42724-6	IP-3 (8-10)	104	100	101
480-42724-6 DL	IP-3 (8-10) DL	84	97	98
480-42943-1	MP-2 (8-10)	97	104	102
480-42943-2	IP-4 (8-10)	97	102	101
MB 480-131084/8		97	100	100
MB 480-131163/7		82	97	97
MB 480-131948/7		89	100	98
LCS 480-131084/7		95	98	102
LCS 480-131163/6		87	99	103
LCS 480-131948/28		95	106	104

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-42724-3 DL	IP-2 (14-16) DL	110	109	107
480-42724-4 DL	IP-1 (16-18) DL	105	105	102
MB 480-131602/2-A		103	103	98
LCS 480-131602/1-A		110	105	103

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	53-146
TOL = Toluene-d8 (Surr)	50-149
BFB = 4-Bromofluorobenzene (Surr)	49-148

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131084

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131084/8	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9883.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/28/2013 2345	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.36	5.0
1,1,2,2-Tetrachloroethane	ND		0.81	5.0
1,1,2-Trichloroethane	ND		0.65	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	5.0
1,1-Dichloroethane	ND		0.61	5.0
1,1-Dichloroethene	ND		0.61	5.0
1,2,4-Trichlorobenzene	ND		0.30	5.0
1,2-Dibromo-3-Chloropropane	ND		2.5	5.0
1,2-Dibromoethane	ND		0.64	5.0
1,2-Dichlorobenzene	ND		0.39	5.0
1,2-Dichloroethane	ND		0.25	5.0
1,2-Dichloropropane	ND		2.5	5.0
1,3-Dichlorobenzene	ND		0.26	5.0
1,4-Dichlorobenzene	ND		0.70	5.0
2-Hexanone	ND		2.5	25
2-Butanone (MEK)	ND		1.8	25
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	25
Benzene	ND		0.25	5.0
Bromodichloromethane	ND		0.67	5.0
Bromoform	ND		2.5	5.0
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	5.0
Carbon tetrachloride	ND		0.48	5.0
Chlorobenzene	ND		0.66	5.0
Dibromochloromethane	ND		0.64	5.0
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	5.0
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	5.0
cis-1,3-Dichloropropene	ND		0.72	5.0
Cyclohexane	ND		0.70	5.0
Dichlorodifluoromethane	ND		0.41	5.0
Ethylbenzene	ND		0.35	5.0
Isopropylbenzene	ND		0.75	5.0
Methyl acetate	ND		0.93	5.0
Methyl tert-butyl ether	ND		0.49	5.0
Methylcyclohexane	ND		0.76	5.0
Methylene Chloride	ND		2.3	5.0
Styrene	ND		0.25	5.0
Tetrachloroethene	ND		0.67	5.0
Toluene	ND		0.38	5.0
trans-1,2-Dichloroethene	ND		0.52	5.0
trans-1,3-Dichloropropene	ND		2.2	5.0
Trichloroethene	ND		1.1	5.0

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131084

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131084/8	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9883.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/28/2013 2345	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.47	5.0
Vinyl chloride	ND		0.61	5.0
Xylenes, Total	ND		0.84	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	64 - 126
Toluene-d8 (Surr)	100	71 - 125
4-Bromofluorobenzene (Surr)	100	72 - 126

Lab Control Sample - Batch: 480-131084

Method: 8260B
Preparation: N/A

Lab Sample ID:	LCS 480-131084/7	Analysis Batch:	480-131084	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9882.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/28/2013 2319	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	49.0	98	73 - 126	
1,1-Dichloroethene	50.0	46.2	92	59 - 125	
1,2-Dichlorobenzene	50.0	48.4	97	75 - 120	
1,2-Dichloroethane	50.0	49.8	100	77 - 122	
Benzene	50.0	53.5	107	79 - 127	
Chlorobenzene	50.0	51.7	103	76 - 124	
cis-1,2-Dichloroethene	50.0	54.3	109	81 - 117	
Ethylbenzene	50.0	49.8	100	80 - 120	
Methyl tert-butyl ether	50.0	49.7	99	63 - 125	
Tetrachloroethene	50.0	52.0	104	74 - 122	
Toluene	50.0	49.9	100	74 - 128	
trans-1,2-Dichloroethene	50.0	51.9	104	78 - 126	
Trichloroethene	50.0	52.6	105	77 - 129	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	64 - 126
Toluene-d8 (Surr)	98	71 - 125
4-Bromofluorobenzene (Surr)	102	72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131163

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131163/7	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9912.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/29/2013 1449	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.36	5.0
1,1,2,2-Tetrachloroethane	ND		0.81	5.0
1,1,2-Trichloroethane	ND		0.65	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	5.0
1,1-Dichloroethane	ND		0.61	5.0
1,1-Dichloroethene	ND		0.61	5.0
1,2,4-Trichlorobenzene	ND		0.30	5.0
1,2-Dibromo-3-Chloropropane	ND		2.5	5.0
1,2-Dibromoethane	ND		0.64	5.0
1,2-Dichlorobenzene	ND		0.39	5.0
1,2-Dichloroethane	ND		0.25	5.0
1,2-Dichloropropane	ND		2.5	5.0
1,3-Dichlorobenzene	ND		0.26	5.0
1,4-Dichlorobenzene	ND		0.70	5.0
2-Hexanone	ND		2.5	25
2-Butanone (MEK)	ND		1.8	25
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	25
Benzene	ND		0.25	5.0
Bromodichloromethane	ND		0.67	5.0
Bromoform	ND		2.5	5.0
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	5.0
Carbon tetrachloride	ND		0.48	5.0
Chlorobenzene	ND		0.66	5.0
Dibromochloromethane	ND		0.64	5.0
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	5.0
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	5.0
cis-1,3-Dichloropropene	ND		0.72	5.0
Cyclohexane	ND		0.70	5.0
Dichlorodifluoromethane	ND		0.41	5.0
Ethylbenzene	ND		0.35	5.0
Isopropylbenzene	ND		0.75	5.0
Methyl acetate	ND		0.93	5.0
Methyl tert-butyl ether	ND		0.49	5.0
Methylcyclohexane	ND		0.76	5.0
Methylene Chloride	ND		2.3	5.0
Styrene	ND		0.25	5.0
Tetrachloroethene	ND		0.67	5.0
Toluene	ND		0.38	5.0
trans-1,2-Dichloroethene	ND		0.52	5.0
trans-1,3-Dichloropropene	ND		2.2	5.0
Trichloroethene	ND		1.1	5.0

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131163

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131163/7	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9912.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/29/2013 1449	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.47	5.0
Vinyl chloride	ND		0.61	5.0
Xylenes, Total	ND		0.84	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82	64 - 126
Toluene-d8 (Surr)	97	71 - 125
4-Bromofluorobenzene (Surr)	97	72 - 126

Lab Control Sample - Batch: 480-131163

Method: 8260B
Preparation: N/A

Lab Sample ID:	LCS 480-131163/6	Analysis Batch:	480-131163	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F9911.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/29/2013 1424	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	41.8	84	73 - 126	
1,1-Dichloroethene	50.0	39.5	79	59 - 125	
1,2-Dichlorobenzene	50.0	48.5	97	75 - 120	
1,2-Dichloroethane	50.0	43.9	88	77 - 122	
Benzene	50.0	45.8	92	79 - 127	
Chlorobenzene	50.0	49.8	100	76 - 124	
cis-1,2-Dichloroethene	50.0	47.2	94	81 - 117	
Ethylbenzene	50.0	48.0	96	80 - 120	
Methyl tert-butyl ether	50.0	44.2	88	63 - 125	
Tetrachloroethene	50.0	50.5	101	74 - 122	
Toluene	50.0	47.9	96	74 - 128	
trans-1,2-Dichloroethene	50.0	44.5	89	78 - 126	
Trichloroethene	50.0	45.2	90	77 - 129	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	64 - 126
Toluene-d8 (Surr)	99	71 - 125
4-Bromofluorobenzene (Surr)	103	72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131602

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 480-131602/2-A	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Client Matrix:	Solid	Prep Batch:	480-131602	Lab File ID:	G25225.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	07/31/2013 1238	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		28	100
1,1,2,2-Tetrachloroethane	ND		16	100
1,1,2-Trichloroethane	ND		21	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	100
1,1-Dichloroethane	ND		31	100
1,1-Dichloroethene	ND		35	100
1,2,4-Trichlorobenzene	ND		38	100
1,2-Dibromo-3-Chloropropane	ND		50	100
1,2-Dibromoethane	ND		3.8	100
1,2-Dichlorobenzene	ND		25	100
1,2-Dichloroethane	ND		41	100
1,2-Dichloropropane	ND		16	100
1,3-Dichlorobenzene	ND		27	100
1,4-Dichlorobenzene	ND		14	100
2-Hexanone	ND		200	500
2-Butanone (MEK)	ND		300	500
4-Methyl-2-pentanone (MIBK)	ND		32	500
Acetone	ND		410	500
Benzene	ND		4.8	100
Bromodichloromethane	ND		20	100
Bromoform	ND		50	100
Bromomethane	ND		22	100
Carbon disulfide	ND		45	100
Carbon tetrachloride	ND		25	100
Chlorobenzene	ND		13	100
Dibromochloromethane	ND		48	100
Chloroethane	ND		21	100
Chloroform	ND		68	100
Chloromethane	ND		24	100
cis-1,2-Dichloroethene	ND		28	100
cis-1,3-Dichloropropene	ND		24	100
Cyclohexane	ND		22	100
Dichlorodifluoromethane	ND		44	100
Ethylbenzene	ND		29	100
Isopropylbenzene	ND		15	100
Methyl acetate	ND		48	100
Methyl tert-butyl ether	ND		38	100
Methylcyclohexane	ND		47	100
Methylene Chloride	ND		20	100
Styrene	ND		24	100
Tetrachloroethene	ND		13	100
Toluene	ND		27	100
trans-1,2-Dichloroethene	ND		24	100
trans-1,3-Dichloropropene	ND		4.8	100
Trichloroethene	ND		28	100

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131602

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 480-131602/2-A	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Client Matrix:	Solid	Prep Batch:	480-131602	Lab File ID:	G25225.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	07/31/2013 1238	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		47	100
Vinyl chloride	ND		33	100
Xylenes, Total	ND		17	200

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	53 - 146
Toluene-d8 (Surr)	103	50 - 149
4-Bromofluorobenzene (Surr)	98	49 - 148

Lab Control Sample - Batch: 480-131602

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 480-131602/1-A	Analysis Batch:	480-131572	Instrument ID:	HP5973G
Client Matrix:	Solid	Prep Batch:	480-131602	Lab File ID:	G25224.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.08 g
Analysis Date:	07/31/2013 1215	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	07/31/2013 1010				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	2460	2650	108	82 - 138	
1,1-Dichloroethene	2460	1390	56	54 - 144	
1,2-Dichlorobenzene	2460	2830	115	80 - 132	
1,2-Dichloroethane	2460	2690	109	78 - 129	
Benzene	2460	2820	115	75 - 131	
Chlorobenzene	2460	2820	114	80 - 127	
cis-1,2-Dichloroethene	2460	2740	111	79 - 128	
Ethylbenzene	2460	2830	115	78 - 136	
Methyl tert-butyl ether	2460	2590	105	67 - 137	
Tetrachloroethene	2460	2750	112	72 - 141	
Toluene	2460	2860	116	76 - 133	
trans-1,2-Dichloroethene	2460	2630	107	81 - 147	
Trichloroethene	2460	2660	108	77 - 130	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	53 - 146
Toluene-d8 (Surr)	105	50 - 149
4-Bromofluorobenzene (Surr)	103	49 - 148

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131948

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131948/7	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F0027.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	08/01/2013 2251	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.36	5.0
1,1,2,2-Tetrachloroethane	ND		0.81	5.0
1,1,2-Trichloroethane	ND		0.65	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	5.0
1,1-Dichloroethane	ND		0.61	5.0
1,1-Dichloroethene	ND		0.61	5.0
1,2,4-Trichlorobenzene	ND		0.30	5.0
1,2-Dibromo-3-Chloropropane	ND		2.5	5.0
1,2-Dibromoethane	ND		0.64	5.0
1,2-Dichlorobenzene	ND		0.39	5.0
1,2-Dichloroethane	ND		0.25	5.0
1,2-Dichloropropane	ND		2.5	5.0
1,3-Dichlorobenzene	ND		0.26	5.0
1,4-Dichlorobenzene	ND		0.70	5.0
2-Hexanone	ND		2.5	25
2-Butanone (MEK)	ND		1.8	25
4-Methyl-2-pentanone (MIBK)	ND		1.6	25
Acetone	ND		4.2	25
Benzene	ND		0.25	5.0
Bromodichloromethane	ND		0.67	5.0
Bromoform	ND		2.5	5.0
Bromomethane	ND		0.45	5.0
Carbon disulfide	ND		2.5	5.0
Carbon tetrachloride	ND		0.48	5.0
Chlorobenzene	ND		0.66	5.0
Dibromochloromethane	ND		0.64	5.0
Chloroethane	ND		1.1	5.0
Chloroform	ND		0.31	5.0
Chloromethane	ND		0.30	5.0
cis-1,2-Dichloroethene	ND		0.64	5.0
cis-1,3-Dichloropropene	ND		0.72	5.0
Cyclohexane	ND		0.70	5.0
Dichlorodifluoromethane	ND		0.41	5.0
Ethylbenzene	ND		0.35	5.0
Isopropylbenzene	ND		0.75	5.0
Methyl acetate	ND		0.93	5.0
Methyl tert-butyl ether	ND		0.49	5.0
Methylcyclohexane	ND		0.76	5.0
Methylene Chloride	ND		2.3	5.0
Styrene	ND		0.25	5.0
Tetrachloroethene	2.60	J	0.67	5.0
Toluene	ND		0.38	5.0
trans-1,2-Dichloroethene	ND		0.52	5.0
trans-1,3-Dichloropropene	ND		2.2	5.0
Trichloroethene	ND		1.1	5.0

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131948

Method: 8260B
Preparation: N/A

Lab Sample ID:	MB 480-131948/7	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F0027.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	08/01/2013 2251	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.47	5.0
Vinyl chloride	ND		0.61	5.0
Xylenes, Total	ND		0.84	10

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	64 - 126
Toluene-d8 (Surr)	100	71 - 125
4-Bromofluorobenzene (Surr)	98	72 - 126

Lab Control Sample - Batch: 480-131948

Method: 8260B
Preparation: N/A

Lab Sample ID:	LCS 480-131948/28	Analysis Batch:	480-131948	Instrument ID:	HP5973F
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	F0048.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	08/02/2013 0758	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	46.7	93	73 - 126	
1,1-Dichloroethene	50.0	41.8	84	59 - 125	
1,2-Dichlorobenzene	50.0	51.2	102	75 - 120	
1,2-Dichloroethane	50.0	47.9	96	77 - 122	
Benzene	50.0	51.0	102	79 - 127	
Chlorobenzene	50.0	54.8	110	76 - 124	
cis-1,2-Dichloroethene	50.0	50.5	101	81 - 117	
Ethylbenzene	50.0	52.2	104	80 - 120	
Methyl tert-butyl ether	50.0	44.0	88	63 - 125	
Tetrachloroethene	50.0	56.2	112	74 - 122	
Toluene	50.0	51.9	104	74 - 128	
trans-1,2-Dichloroethene	50.0	52.2	104	78 - 126	
Trichloroethene	50.0	49.9	100	77 - 129	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	64 - 126
Toluene-d8 (Surr)	106	71 - 125
4-Bromofluorobenzene (Surr)	104	72 - 126

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131204

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 480-131204/1-A	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5238 g
Analysis Date:	07/30/2013 1341	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		4.2	9.5
Antimony	ND		0.38	14.3
Arsenic	ND		0.38	1.9
Barium	ND		0.11	0.48
Beryllium	ND		0.027	0.19
Cadmium	0.0382	J	0.029	0.19
Calcium	5.99	J	3.2	47.7
Chromium	ND		0.19	0.48
Cobalt	ND		0.048	0.48
Copper	ND		0.20	0.95
Iron	3.72	J	1.1	9.5
Lead	ND		0.23	0.95
Magnesium	1.07	J	0.88	19.1
Manganese	ND		0.031	0.19
Nickel	ND		0.22	4.8
Potassium	ND		19.1	28.6
Selenium	ND		0.38	3.8
Silver	ND		0.19	0.48
Sodium	ND		12.4	134
Thallium	ND		0.29	5.7
Vanadium	ND		0.11	0.48
Zinc	0.162	J	0.15	1.9

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

LCS-Certified Reference Material - Batch: 480-131204

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	480-131477	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-131204	Lab File ID:	I1073013A-6.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4996 g
Analysis Date:	07/30/2013 1344	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/29/2013 1440				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9510	8189	86.1	43.7 - 155.6	
Antimony	72.9	59.60	81.8	25.7 - 282.6	
Arsenic	161	169.2	105.1	70.8 - 129.8	
Barium	385	390.9	101.5	74.3 - 125.7	
Beryllium	146	160.1	109.7	75.3 - 124.7	
Cadmium	149	176.2	118.3	73.8 - 128.2	
Calcium	7890	8599	109.0	74.8 - 125.2	
Chromium	180	196.4	109.1	70.6 - 129.4	
Cobalt	106	129.0	121.7	74.4 - 125.5	
Copper	162	182.8	112.8	75.3 - 127.8	
Iron	13000	10560	81.2	32.5 - 167.7	
Lead	103	112.4	109.2	70.9 - 128.2	
Magnesium	3520	3392	96.4	68.2 - 132.1	
Manganese	386	387.1	100.3	75.9 - 124.4	
Nickel	133	168.2	126.5	73.2 - 129.3	
Potassium	2600	2419	93.0	61.2 - 138.5	
Selenium	153	163.5	106.9	67.3 - 132.0	
Silver	71.1	69.83	98.2	67.2 - 132.9	
Sodium	517	549.5	106.3	51.5 - 148.5	
Thallium	157	176.6	112.5	68.2 - 131.2	
Vanadium	126	127.0	100.8	69.0 - 131.7	
Zinc	352	388.1	110.3	72.2 - 127.8	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131879

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 480-131879/1-A	Analysis Batch:	480-132123	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-131879	Lab File ID:	I1080213A-2.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.4515 g
Analysis Date:	08/02/2013 1050	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1415				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	ND		4.9	11.1
Antimony	ND		0.44	16.6
Arsenic	ND		0.44	2.2
Barium	ND		0.12	0.55
Beryllium	ND		0.031	0.22
Cadmium	ND		0.033	0.22
Calcium	6.86	J	3.7	55.4
Chromium	ND		0.22	0.55
Cobalt	ND		0.055	0.55
Copper	ND		0.23	1.1
Iron	2.42	J	1.2	11.1
Lead	ND		0.27	1.1
Magnesium	ND		1.0	22.1
Manganese	0.203	J	0.035	0.22
Nickel	ND		0.25	5.5
Potassium	ND		22.1	33.2
Selenium	ND		0.44	4.4
Silver	ND		0.22	0.55
Sodium	ND		14.4	155
Thallium	ND		0.33	6.6
Vanadium	ND		0.12	0.55
Zinc	0.452	J	0.17	2.2

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

LCS-Certified Reference Material - Batch: 480-131879

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCSSRM	Analysis Batch:	480-132123	Instrument ID:	ICAP1
Client Matrix:	Solid	Prep Batch:	480-131879	Lab File ID:	I1080213A-2.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5010 g
Analysis Date:	08/02/2013 1052	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1415				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	9490	5911	62.3	43.7 - 155.6	
Antimony	72.8	34.26	47.1	25.7 - 282.6	
Arsenic	161	134.4	83.6	70.8 - 129.8	
Barium	384	310.2	80.7	74.3 - 125.7	
Beryllium	146	123.3	84.6	75.3 - 124.7	
Cadmium	149	127.0	85.4	73.8 - 128.2	
Calcium	7870	6413	81.4	74.8 - 125.2	
Chromium	180	148.4	82.6	70.6 - 129.4	
Cobalt	106	92.35	87.3	74.4 - 125.5	
Copper	162	133.9	82.8	75.3 - 127.8	
Iron	13000	7882	60.8	32.5 - 167.7	
Lead	103	88.77	86.4	70.9 - 128.2	
Magnesium	3510	2722	77.5	68.2 - 132.1	
Manganese	385	304.1	78.9	75.9 - 124.4	
Nickel	133	117.2	88.3	73.2 - 129.3	
Potassium	2590	1897	73.1	61.2 - 138.5	
Selenium	153	127.1	83.3	67.3 - 132.0	
Silver	71.0	61.98	87.4	67.2 - 132.9	
Sodium	516	417.3	80.9	51.5 - 148.5	
Thallium	157	140.0	89.4	68.2 - 131.2	
Vanadium	126	96.14	76.5	69.0 - 131.7	
Zinc	351	298.1	84.9	72.2 - 127.8	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131380

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-131380/1-A	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6301 g
Analysis Date:	07/30/2013 1247	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0077	0.019

LCS-Certified Reference Material - Batch: 480-131380

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0535 g
Analysis Date:	07/30/2013 1249	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.77	2.92	77.3	50.9 - 149.1	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-131380

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-42724-1	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6222 g
Analysis Date:	07/30/2013 1300			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				
Leach Date:	N/A				

MSD Lab Sample ID:	480-42724-1	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.5998 g
Analysis Date:	07/30/2013 1302			Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	76	84	75 - 125	12	20		

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-131380

Method: 7471A
Preparation: 7471A

MS Lab Sample ID:	480-42724-1	Units: mg/Kg	MSD Lab Sample ID:	480-42724-1	
Client Matrix:	Solid		Client Matrix:	Solid	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	07/30/2013 1300		Analysis Date:	07/30/2013 1302	
Prep Date:	07/30/2013 1030		Prep Date:	07/30/2013 1030	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.024	0.364	0.378	0.301	0.341

Serial Dilution - Batch: 480-131380

Method: 7471A
Preparation: 7471A

Lab Sample ID:	480-42724-1	Analysis Batch:	480-131435	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131380	Lab File ID:	J07303S1.PRN
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6062 g
Analysis Date:	07/30/2013 1258	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/30/2013 1030				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	0.024	ND	NC	10	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 480-131857

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 480-131857/1-A	Analysis Batch:	480-131904	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131857	Lab File ID:	J08013S2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.6016 g
Analysis Date:	08/01/2013 1322	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1150				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0081	0.020

LCS-Certified Reference Material - Batch: 480-131857

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM	Analysis Batch:	480-131904	Instrument ID:	LEEMAN3
Client Matrix:	Solid	Prep Batch:	480-131857	Lab File ID:	J08013S2.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+0.0528 g
Analysis Date:	08/01/2013 1324	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	08/01/2013 1150				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	3.77	2.97	78.9	50.9 - 149.1	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 200-59382

Method: Lloyd Kahn
Preparation: N/A

Lab Sample ID:	MB 200-59382/5	Analysis Batch:	200-59382	Instrument ID:	WCCH1
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	080513A005
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/05/2013 1347	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon	ND		1000	1000

Lab Control Sample - Batch: 200-59382

Method: Lloyd Kahn
Preparation: N/A

Lab Sample ID:	LCS 200-59382/6	Analysis Batch:	200-59382	Instrument ID:	WCCH1
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	080513A007
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/05/2013 1401	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	20100	19970	99	75 - 125	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Method Blank - Batch: 200-59873

Method: Lloyd Kahn
Preparation: N/A

Lab Sample ID:	MB 200-59873/5	Analysis Batch:	200-59873	Instrument ID:	WCCH2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	080913A005
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/09/2013 1203	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL	RL
Total Organic Carbon	ND		1000	1000

Lab Control Sample - Batch: 200-59873

Method: Lloyd Kahn
Preparation: N/A

Lab Sample ID:	LCS 200-59873/6	Analysis Batch:	200-59873	Instrument ID:	WCCH2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	080913A007
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/09/2013 1215	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	20100	20780	103	75 - 125	

DATA REPORTING QUALIFIERS

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	*	LCS or LCSD exceeds the control limits
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-131084					
LCS 480-131084/7	Lab Control Sample	T	Solid	8260B	
MB 480-131084/8	Method Blank	T	Solid	8260B	
480-42724-1	SVE-1 (10-14)	T	Solid	8260B	480-131088
480-42724-2	SVE-2 (12-14)	T	Solid	8260B	480-131088
480-42724-3	IP-2 (14-16)	T	Solid	8260B	480-131088
480-42724-4	IP-1 (16-18)	T	Solid	8260B	480-131088
480-42724-5	MP-1 (10-12)	T	Solid	8260B	480-131088
480-42724-6	IP-3 (8-10)	T	Solid	8260B	480-131088
Prep Batch: 480-131088					
480-42724-1	SVE-1 (10-14)	T	Solid	5035	
480-42724-2	SVE-2 (12-14)	T	Solid	5035	
480-42724-3	IP-2 (14-16)	T	Solid	5035	
480-42724-4	IP-1 (16-18)	T	Solid	5035	
480-42724-5	MP-1 (10-12)	T	Solid	5035	
480-42724-6	IP-3 (8-10)	T	Solid	5035	
Analysis Batch:480-131163					
LCS 480-131163/6	Lab Control Sample	T	Solid	8260B	
MB 480-131163/7	Method Blank	T	Solid	8260B	
480-42724-1DL	SVE-1 (10-14)	T	Solid	8260B	480-131167
480-42724-2DL	SVE-2 (12-14)	T	Solid	8260B	480-131167
480-42724-6DL	IP-3 (8-10)	T	Solid	8260B	480-131167
Prep Batch: 480-131167					
480-42724-1DL	SVE-1 (10-14)	T	Solid	5035	
480-42724-2DL	SVE-2 (12-14)	T	Solid	5035	
480-42724-6DL	IP-3 (8-10)	T	Solid	5035	
Analysis Batch:480-131572					
LCS 480-131602/1-A	Lab Control Sample	T	Solid	8260B	480-131602
MB 480-131602/2-A	Method Blank	T	Solid	8260B	480-131602
480-42724-3DL	IP-2 (14-16)	T	Solid	8260B	480-131602
480-42724-4DL	IP-1 (16-18)	T	Solid	8260B	480-131602
Prep Batch: 480-131602					
LCS 480-131602/1-A	Lab Control Sample	T	Solid	5035	
MB 480-131602/2-A	Method Blank	T	Solid	5035	
480-42724-3DL	IP-2 (14-16)	T	Solid	5035	
480-42724-4DL	IP-1 (16-18)	T	Solid	5035	
Prep Batch: 480-131878					
480-42943-1	MP-2 (8-10)	T	Solid	5035	
480-42943-2	IP-4 (8-10)	T	Solid	5035	

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-131948					
LCS 480-131948/28	Lab Control Sample	T	Solid	8260B	
MB 480-131948/7	Method Blank	T	Solid	8260B	
480-42943-1	MP-2 (8-10)	T	Solid	8260B	480-131878
480-42943-2	IP-4 (8-10)	T	Solid	8260B	480-131878

Report Basis
T = Total

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-131204					
LCSSRM 480-131204/2-A	LCS-Certified Reference Material	T	Solid	3050B	
MB 480-131204/1-A	Method Blank	T	Solid	3050B	
480-42724-1	SVE-1 (10-14)	T	Solid	3050B	
480-42724-2	SVE-2 (12-14)	T	Solid	3050B	
480-42724-3	IP-2 (14-16)	T	Solid	3050B	
480-42724-4	IP-1 (16-18)	T	Solid	3050B	
480-42724-5	MP-1 (10-12)	T	Solid	3050B	
480-42724-6	IP-3 (8-10)	T	Solid	3050B	
Prep Batch: 480-131380					
LCSSRM 480-131380/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-131380/1-A	Method Blank	T	Solid	7471A	
480-42724-1	SVE-1 (10-14)	T	Solid	7471A	
480-42724-1MS	Matrix Spike	T	Solid	7471A	
480-42724-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
480-42724-2	SVE-2 (12-14)	T	Solid	7471A	
480-42724-3	IP-2 (14-16)	T	Solid	7471A	
480-42724-4	IP-1 (16-18)	T	Solid	7471A	
480-42724-5	MP-1 (10-12)	T	Solid	7471A	
480-42724-6	IP-3 (8-10)	T	Solid	7471A	
Analysis Batch:480-131435					
LCSSRM 480-131380/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-131380
MB 480-131380/1-A	Method Blank	T	Solid	7471A	480-131380
480-42724-1	SVE-1 (10-14)	T	Solid	7471A	480-131380
480-42724-1MS	Matrix Spike	T	Solid	7471A	480-131380
480-42724-1MSD	Matrix Spike Duplicate	T	Solid	7471A	480-131380
480-42724-2	SVE-2 (12-14)	T	Solid	7471A	480-131380
480-42724-3	IP-2 (14-16)	T	Solid	7471A	480-131380
480-42724-4	IP-1 (16-18)	T	Solid	7471A	480-131380
480-42724-5	MP-1 (10-12)	T	Solid	7471A	480-131380
480-42724-6	IP-3 (8-10)	T	Solid	7471A	480-131380
Analysis Batch:480-131477					
LCSSRM 480-131204/2-A	LCS-Certified Reference Material	T	Solid	6010B	480-131204
MB 480-131204/1-A	Method Blank	T	Solid	6010B	480-131204
480-42724-1	SVE-1 (10-14)	T	Solid	6010B	480-131204
480-42724-2	SVE-2 (12-14)	T	Solid	6010B	480-131204
480-42724-3	IP-2 (14-16)	T	Solid	6010B	480-131204
480-42724-4	IP-1 (16-18)	T	Solid	6010B	480-131204
480-42724-5	MP-1 (10-12)	T	Solid	6010B	480-131204
480-42724-6	IP-3 (8-10)	T	Solid	6010B	480-131204

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-131857					
LCSSRM 480-131857/2-A	LCS-Certified Reference Material	T	Solid	7471A	
MB 480-131857/1-A	Method Blank	T	Solid	7471A	
480-42943-1	MP-2 (8-10)	T	Solid	7471A	
480-42943-2	IP-4 (8-10)	T	Solid	7471A	
Prep Batch: 480-131879					
LCSSRM 480-131879/2-A	LCS-Certified Reference Material	T	Solid	3050B	
MB 480-131879/1-A	Method Blank	T	Solid	3050B	
480-42943-1	MP-2 (8-10)	T	Solid	3050B	
480-42943-2	IP-4 (8-10)	T	Solid	3050B	
Analysis Batch:480-131904					
LCSSRM 480-131857/2-A	LCS-Certified Reference Material	T	Solid	7471A	480-131857
MB 480-131857/1-A	Method Blank	T	Solid	7471A	480-131857
480-42943-1	MP-2 (8-10)	T	Solid	7471A	480-131857
480-42943-2	IP-4 (8-10)	T	Solid	7471A	480-131857
Analysis Batch:480-132123					
LCSSRM 480-131879/2-A	LCS-Certified Reference Material	T	Solid	6010B	480-131879
MB 480-131879/1-A	Method Blank	T	Solid	6010B	480-131879
480-42943-1	MP-2 (8-10)	T	Solid	6010B	480-131879
480-42943-2	IP-4 (8-10)	T	Solid	6010B	480-131879

Report Basis
T = Total

Client: New York State D.E.C.

Job Number: 480-42724-1
Sdg Number: ISCO

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:200-59382					
LCS 200-59382/6	Lab Control Sample	T	Solid	Lloyd Kahn	
MB 200-59382/5	Method Blank	T	Solid	Lloyd Kahn	
480-42724-1	SVE-1 (10-14)	T	Solid	Lloyd Kahn	
480-42724-2	SVE-2 (12-14)	T	Solid	Lloyd Kahn	
480-42724-3	IP-2 (14-16)	T	Solid	Lloyd Kahn	
480-42724-4	IP-1 (16-18)	T	Solid	Lloyd Kahn	
480-42724-5	MP-1 (10-12)	T	Solid	Lloyd Kahn	
480-42724-6	IP-3 (8-10)	T	Solid	Lloyd Kahn	
Analysis Batch:200-59873					
LCS 200-59873/6	Lab Control Sample	T	Solid	Lloyd Kahn	
MB 200-59873/5	Method Blank	T	Solid	Lloyd Kahn	
480-42943-1	MP-2 (8-10)	T	Solid	Lloyd Kahn	
480-42943-2	IP-4 (8-10)	T	Solid	Lloyd Kahn	
Analysis Batch:480-130967					
480-42724-1	SVE-1 (10-14)	T	Solid	Moisture	
480-42724-2	SVE-2 (12-14)	T	Solid	Moisture	
480-42724-3	IP-2 (14-16)	T	Solid	Moisture	
480-42724-4	IP-1 (16-18)	T	Solid	Moisture	
480-42724-5	MP-1 (10-12)	T	Solid	Moisture	
480-42724-6	IP-3 (8-10)	T	Solid	Moisture	
Analysis Batch:480-131686					
480-42943-1	MP-2 (8-10)	T	Solid	Moisture	
480-42943-2	IP-4 (8-10)	T	Solid	Moisture	

Report Basis
T = Total

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG: ISCO

Laboratory Chronicle

Lab ID: 480-42724-1 **Client ID:** SVE-1 (10-14)

Sample Date/Time: 07/22/2013 15:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-1-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-1-A		480-131084	480-131088	07/29/2013 03:54	1	TAL BUF	PJQ
P:5035	480-42724-A-1-B	DL	480-131163	480-131167	07/29/2013 12:08	1	TAL BUF	PJQ
A:8260B	480-42724-A-1-B	DL	480-131163	480-131167	07/29/2013 16:42	1	TAL BUF	PJQ
P:3050B	480-42724-A-1-C		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-1-C		480-131477	480-131204	07/30/2013 13:46	1	TAL BUF	LMH
P:7471A	480-42724-A-1-D		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-1-D		480-131435	480-131380	07/30/2013 12:57	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-1		200-59382		08/05/2013 22:00	1	TAL BUR	KTB
A:Moisture	480-42724-A-1		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Lab ID: 480-42724-1 MS **Client ID:** SVE-1 (10-14)

Sample Date/Time: 07/22/2013 15:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-42724-A-1-E MS		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-1-E MS		480-131435	480-131380	07/30/2013 13:00	1	TAL BUF	JRK

Lab ID: 480-42724-1 MSD **Client ID:** SVE-1 (10-14)

Sample Date/Time: 07/22/2013 15:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-42724-A-1-F MSD		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-1-F MSD		480-131435	480-131380	07/30/2013 13:02	1	TAL BUF	JRK

Lab ID: 480-42724-1 SD **Client ID:** SVE-1 (10-14)

Sample Date/Time: 07/22/2013 15:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	480-42724-A-1-D SD ^5		480-131435	480-131380	07/30/2013 10:30	5	TAL BUF	JRK
A:7471A	480-42724-A-1-D SD ^5		480-131435	480-131380	07/30/2013 12:58	5	TAL BUF	JRK

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG: ISCO

Laboratory Chronicle

Lab ID: 480-42724-2 **Client ID:** SVE-2 (12-14)

Sample Date/Time: 07/23/2013 10:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-2-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-2-A		480-131084	480-131088	07/29/2013 04:19	1	TAL BUF	PJQ
P:5035	480-42724-A-2-B	DL	480-131163	480-131167	07/29/2013 12:08	1	TAL BUF	PJQ
A:8260B	480-42724-A-2-B	DL	480-131163	480-131167	07/29/2013 17:07	1	TAL BUF	PJQ
P:3050B	480-42724-A-2-C		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-2-C		480-131477	480-131204	07/30/2013 13:49	1	TAL BUF	LMH
P:7471A	480-42724-A-2-D		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-2-D		480-131435	480-131380	07/30/2013 13:04	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-2		200-59382		08/05/2013 22:15	1	TAL BUR	KTB
A:Moisture	480-42724-A-2		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Lab ID: 480-42724-3 **Client ID:** IP-2 (14-16)

Sample Date/Time: 07/24/2013 09:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-3-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-3-A		480-131084	480-131088	07/29/2013 04:45	1	TAL BUF	PJQ
P:5035	480-42724-A-3-D	DL	480-131572	480-131602	07/31/2013 10:10	1	TAL BUF	NQN
A:8260B	480-42724-A-3-D	DL	480-131572	480-131602	07/31/2013 13:23	1	TAL BUF	NQN
P:3050B	480-42724-A-3-B		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-3-B		480-131477	480-131204	07/30/2013 13:52	1	TAL BUF	LMH
P:7471A	480-42724-A-3-C		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-3-C		480-131435	480-131380	07/30/2013 13:09	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-3		200-59382		08/05/2013 22:59	1	TAL BUR	KTB
A:Moisture	480-42724-A-3		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Lab ID: 480-42724-4 **Client ID:** IP-1 (16-18)

Sample Date/Time: 07/25/2013 08:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-4-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-4-A		480-131084	480-131088	07/29/2013 05:10	1	TAL BUF	PJQ
P:5035	480-42724-A-4-D	DL	480-131572	480-131602	07/31/2013 10:10	1	TAL BUF	NQN
A:8260B	480-42724-A-4-D	DL	480-131572	480-131602	07/31/2013 13:46	1	TAL BUF	NQN
P:3050B	480-42724-A-4-B		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-4-B		480-131477	480-131204	07/30/2013 13:54	1	TAL BUF	LMH
P:7471A	480-42724-A-4-C		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-4-C		480-131435	480-131380	07/30/2013 13:11	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-4		200-59382		08/05/2013 23:14	1	TAL BUR	KTB
A:Moisture	480-42724-A-4		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG: ISCO

Laboratory Chronicle

Lab ID: 480-42724-5 **Client ID:** MP-1 (10-12)

Sample Date/Time: 07/26/2013 07:30 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-5-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-5-A		480-131084	480-131088	07/29/2013 05:36	1	TAL BUF	PJQ
P:3050B	480-42724-A-5-B		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-5-B		480-131477	480-131204	07/30/2013 13:57	1	TAL BUF	LMH
P:7471A	480-42724-A-5-C		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-5-C		480-131435	480-131380	07/30/2013 13:12	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-5		200-59382		08/05/2013 23:28	1	TAL BUR	KTB
A:Moisture	480-42724-A-5		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Lab ID: 480-42724-6 **Client ID:** IP-3 (8-10)

Sample Date/Time: 07/26/2013 11:15 Received Date/Time: 07/26/2013 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42724-A-6-A		480-131084	480-131088	07/28/2013 23:50	1	TAL BUF	CDC
A:8260B	480-42724-A-6-A		480-131084	480-131088	07/29/2013 06:01	1	TAL BUF	PJQ
P:5035	480-42724-A-6-B	DL	480-131163	480-131167	07/29/2013 12:08	1	TAL BUF	PJQ
A:8260B	480-42724-A-6-B	DL	480-131163	480-131167	07/29/2013 17:33	1	TAL BUF	PJQ
P:3050B	480-42724-A-6-C		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	480-42724-A-6-C		480-131477	480-131204	07/30/2013 14:00	1	TAL BUF	LMH
P:7471A	480-42724-A-6-D		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	480-42724-A-6-D		480-131435	480-131380	07/30/2013 13:14	1	TAL BUF	JRK
A:Lloyd Kahn	480-42724-A-6		200-59382		08/05/2013 23:43	1	TAL BUR	KTB
A:Moisture	480-42724-A-6		480-130967		07/26/2013 20:56	1	TAL BUF	GTG

Lab ID: 480-42943-1 **Client ID:** MP-2 (8-10)

Sample Date/Time: 07/26/2013 13:15 Received Date/Time: 07/31/2013 16:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42943-A-1-A		480-131948	480-131878	08/01/2013 12:44	1	TAL BUF	PJQ
A:8260B	480-42943-A-1-A		480-131948	480-131878	08/02/2013 06:17	1	TAL BUF	PJQ
P:3050B	480-42943-B-1-B		480-132123	480-131879	08/01/2013 14:15	1	TAL BUF	SS1
A:6010B	480-42943-B-1-B		480-132123	480-131879	08/02/2013 11:53	1	TAL BUF	LMH
P:7471A	480-42943-B-1-A		480-131904	480-131857	08/01/2013 11:50	1	TAL BUF	JRK
A:7471A	480-42943-B-1-A		480-131904	480-131857	08/01/2013 14:03	1	TAL BUF	JRK
A:Lloyd Kahn	480-42943-A-1		200-59873		08/09/2013 12:28	1	TAL BUR	VTP
A:Moisture	480-42943-A-1		480-131686		07/31/2013 21:46	1	TAL BUF	GTG

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG: ISCO

Laboratory Chronicle

Lab ID: 480-42943-2 **Client ID:** IP-4 (8-10)

Sample Date/Time: 07/29/2013 14:30 Received Date/Time: 07/31/2013 16:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5035	480-42943-A-2-A		480-131948	480-131878	08/01/2013 12:44	1	TAL BUF	PJQ
A:8260B	480-42943-A-2-A		480-131948	480-131878	08/02/2013 06:42	1	TAL BUF	PJQ
P:3050B	480-42943-B-2-B		480-132123	480-131879	08/01/2013 14:15	1	TAL BUF	SS1
A:6010B	480-42943-B-2-B		480-132123	480-131879	08/02/2013 11:55	1	TAL BUF	LMH
P:7471A	480-42943-B-2-A		480-131904	480-131857	08/01/2013 11:50	1	TAL BUF	JRK
A:7471A	480-42943-B-2-A		480-131904	480-131857	08/01/2013 14:09	1	TAL BUF	JRK
A:Lloyd Kahn	480-42943-A-2		200-59873		08/09/2013 12:41	1	TAL BUR	VTP
A:Moisture	480-42943-A-2		480-131686		07/31/2013 21:46	1	TAL BUF	GTG

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260B	MB 480-131084/8		480-131084		07/28/2013 23:45	1	TAL BUF	PJQ
A:8260B	MB 480-131163/7		480-131163		07/29/2013 14:49	1	TAL BUF	PJQ
P:5035	MB 480-131602/2-A		480-131572	480-131602	07/31/2013 10:10	1	TAL BUF	NQN
A:8260B	MB 480-131602/2-A		480-131572	480-131602	07/31/2013 12:38	1	TAL BUF	NQN
A:8260B	MB 480-131948/7		480-131948		08/01/2013 22:51	1	TAL BUF	PJQ
P:3050B	MB 480-131204/1-A		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	MB 480-131204/1-A		480-131477	480-131204	07/30/2013 13:41	1	TAL BUF	LMH
P:3050B	MB 480-131879/1-A		480-132123	480-131879	08/01/2013 14:15	1	TAL BUF	SS1
A:6010B	MB 480-131879/1-A		480-132123	480-131879	08/02/2013 10:50	1	TAL BUF	LMH
P:7471A	MB 480-131380/1-A		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	MB 480-131380/1-A		480-131435	480-131380	07/30/2013 12:47	1	TAL BUF	JRK
P:7471A	MB 480-131857/1-A		480-131904	480-131857	08/01/2013 11:50	1	TAL BUF	JRK
A:7471A	MB 480-131857/1-A		480-131904	480-131857	08/01/2013 13:22	1	TAL BUF	JRK
A:Lloyd Kahn	MB 200-59382/5		200-59382		08/05/2013 13:47	1	TAL BUR	KTB
A:Lloyd Kahn	MB 200-59873/5		200-59873		08/09/2013 12:03	1	TAL BUR	VTP

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:8260B	LCS 480-131084/7		480-131084		07/28/2013 23:19	1	TAL BUF	PJQ
A:8260B	LCS 480-131163/6		480-131163		07/29/2013 14:24	1	TAL BUF	PJQ
P:5035	LCS 480-131602/1-A		480-131572	480-131602	07/31/2013 10:10	1	TAL BUF	NQN
A:8260B	LCS 480-131602/1-A		480-131572	480-131602	07/31/2013 12:15	1	TAL BUF	NQN
A:8260B	LCS 480-131948/28		480-131948		08/02/2013 07:58	1	TAL BUF	PJQ
A:Lloyd Kahn	LCS 200-59382/6		200-59382		08/05/2013 14:01	1	TAL BUR	KTB
A:Lloyd Kahn	LCS 200-59873/6		200-59873		08/09/2013 12:15	1	TAL BUR	VTP

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG: ISCO

Laboratory Chronicle

Lab ID: **LCSSRM** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	LCSSRM 480-131204/2-A		480-131477	480-131204	07/29/2013 14:40	1	TAL BUF	MDM
A:6010B	LCSSRM 480-131204/2-A		480-131477	480-131204	07/30/2013 13:44	1	TAL BUF	LMH
P:3050B	LCSSRM 480-131879/2-A		480-132123	480-131879	08/01/2013 14:15	1	TAL BUF	SS1
A:6010B	LCSSRM 480-131879/2-A		480-132123	480-131879	08/02/2013 10:52	1	TAL BUF	LMH
P:7471A	LCSSRM 480-131380/2-A		480-131435	480-131380	07/30/2013 10:30	1	TAL BUF	JRK
A:7471A	LCSSRM 480-131380/2-A		480-131435	480-131380	07/30/2013 12:49	1	TAL BUF	JRK
P:7471A	LCSSRM 480-131857/2-A		480-131904	480-131857	08/01/2013 11:50	1	TAL BUF	JRK
A:7471A	LCSSRM 480-131857/2-A		480-131904	480-131857	08/01/2013 13:24	1	TAL BUF	JRK

Lab References:
TAL BUF = TestAmerica Buffalo
TAL BUR = TestAmerica Burlington

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Scott McDonald	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-37973-9922.1
Client Contact: Mike Musso	Phone: 607-765-7271	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 2
Company: HDR Inc				Job #:
Address: 1 Blue Hill Plaza, 12th Floor	Due Date Requested:			
City: Pearl River	TAT Requested (days):			
State, Zip: NY, 10965				
Phone:	PO #: Callout# 121817			
Email: mike.musso@hdrinc.com	WO #:			
Project Name: NYSDEC - Air Force Plant 51: Site#828156	Project #: 48008239			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lloyd_Kahn_Mod - Total Organic Carbon 202	8260B - TCL list OLM04.2 502	6010B, 7471A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
SVE-1 (10-14)	7-22-13	1530	C	Solid			X	X	X	2	
SVE-2 (12-14)	7-23-13	1000	G	Solid			X	X	X	2	
~~SVE-2~~ (14-16)	7-24-13	0930	G	Solid			X	X	X	2	
TP-1 (16-18)	7-25-13	0830	G	Solid			X	X	X	2	
TP-2 (10-12)	7-26-13	0730	G	Solid			X	X	X	2	
TP-3 (8-10)	7-26-13	1115	G	Solid			X	X	X	2	
				Solid							
				Solid							
				Solid							
				Solid							
				Solid							

480-42724 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 7-26-13 1330	Company: GES	Received by:	Date/Time: 7/26/13 @ 1330	Company: TAB
Relinquished by:	Date/Time: 7/26/13 @ 1635	Company: TAB	Received by:	Date/Time: 7/26/13 1635	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.0 ICE #1

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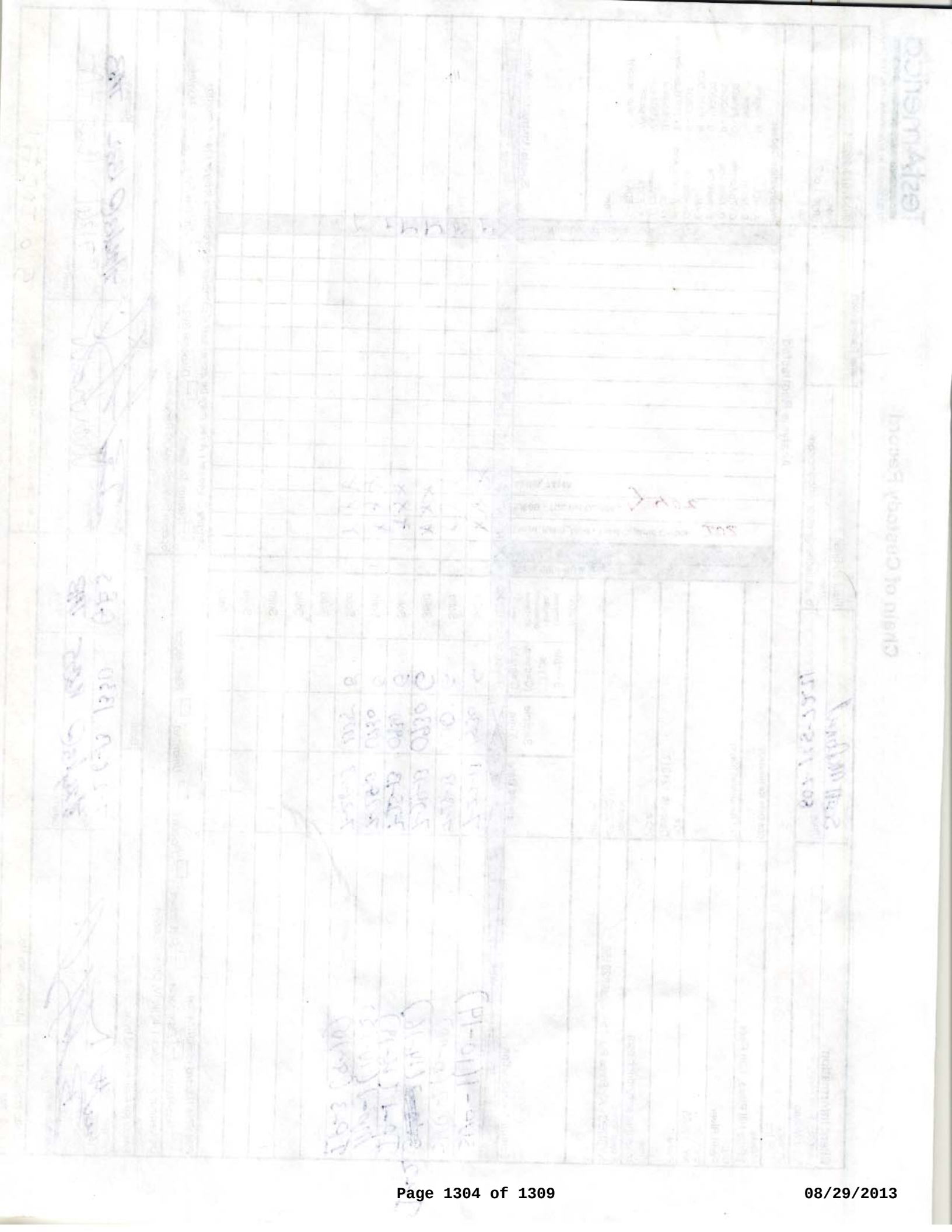

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Scott McDonald	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-37973-9922.2
Client Contact: Mike Musso	Phone: 607-765-7277	E-Mail: brian.fischer@testamericainc.com		Page: Page 2 of 2
Company: HDR Inc				Job #:
Address: 1 Blue Hill Plaza, 12th Floor	Due Date Requested:			
City: Pearl River	TAT Requested (days):			
State, Zip: NY, 10965				
Phone:	PO #: Callout# 121817			
Email: mike.musso@hdrinc.com	WO #:			
Project Name: NYSDEC - Air Force Plant 51: Site#828156	Project #: 48008239			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lloyd_Kahn_Mod - Total Organic Carbon	8260B - TCL list OLM04.2	6010B, 7471A	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N		
MP-2(8-10)	7-26-13	1345	C	Solid			Y	X	Y	2	
IP-4(8-10)	7-29-13	1430	C	Solid			Y	X	Y	2	
				Solid							
				Solid							

480-42943 Chain of Custody

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Scott McDonald	7/31/13 1405	GES		7/31/13 1405	TAB
2		7/31/13 1650	TAB		7/31/13 1650	TA
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.4 ICE#1

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08/29/2013

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG Number: ISCO

Login Number: 42724
List Number: 1
Creator: Kolb, Chris 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.	N/A	
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	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG Number: ISCO

Login Number: 42724
List Number: 1
Creator: Gagne, Eric M

List Source: TestAmerica Burlington
List Creation: 07/30/13 01:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957382
Sample custody seals, if present, are 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	2.2ºC IR GUN ID 181. CF -0.2
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	Received project as a subcontract.
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG Number: ISCO

Login Number: 42943
List Number: 1
Creator: Kolb, Chris 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.	N/A	
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.	N/A	
Samples received within 48 hours of sampling.	False	First sample collected on 7/26
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-42724-1
SDG Number: ISCO

Login Number: 42943
List Number: 1
Creator: Gagne, Eric M

List Source: TestAmerica Burlington
List Creation: 08/02/13 01:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957398
Sample custody seals, if present, are 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	2.6ºC IR GUN ID 181. CF -0.2
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	Received project as a subcontract.
There are no discrepancies between the containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 480-44946-1
Client Project/Site: NYSDEC - Air Force Plant 51: Site#828156

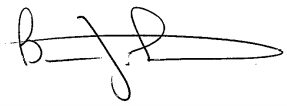
For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, New York 12233-3256

Attn: Mr. Eric Hausamann

Authorized for release by:
9/5/2013 5:39:46 PM

Brian Fischer, Project Manager II
brian.fischer@testamericainc.com

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.



Brian Fischer
Project Manager II
9/5/2013 5:39:46 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
*	LCS or LCSD exceeds the control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
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)

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-1
Date Collected: 08/30/13 12:00
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/03/13 21:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/03/13 21:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/03/13 21:03	1
1,1,2-Trichloroethane	**2.5**		1.0	0.23	ug/L			09/03/13 21:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/03/13 21:03	1
1,1-Dichloroethene	**170**	**E**	1.0	0.29	ug/L			09/03/13 21:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/03/13 21:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/03/13 21:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/03/13 21:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/03/13 21:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/03/13 21:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/03/13 21:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/03/13 21:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/03/13 21:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/03/13 21:03	1
2-Hexanone	ND		5.0	1.2	ug/L			09/03/13 21:03	1
4-Methyl-2-pentanone (MIBK)	**2.8**	**J**	5.0	2.1	ug/L			09/03/13 21:03	1
Acetone	**18**		10	3.0	ug/L			09/03/13 21:03	1
Benzene	**2.5**		1.0	0.41	ug/L			09/03/13 21:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/03/13 21:03	1
Bromoform	ND		1.0	0.26	ug/L			09/03/13 21:03	1
Bromomethane	ND		1.0	0.69	ug/L			09/03/13 21:03	1
Carbon disulfide	**34**	**B**	1.0	0.19	ug/L			09/03/13 21:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/03/13 21:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/03/13 21:03	1
Chloroethane	ND		1.0	0.32	ug/L			09/03/13 21:03	1
Chloroform	ND		1.0	0.34	ug/L			09/03/13 21:03	1
Chloromethane	ND		1.0	0.35	ug/L			09/03/13 21:03	1
cis-1,2-Dichloroethene	**12000**	**E**	1.0	0.81	ug/L			09/03/13 21:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/03/13 21:03	1
Cyclohexane	ND		1.0	0.18	ug/L			09/03/13 21:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/03/13 21:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/03/13 21:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/03/13 21:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/03/13 21:03	1
Methyl acetate	ND		1.0	0.50	ug/L			09/03/13 21:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/03/13 21:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/03/13 21:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/03/13 21:03	1
Styrene	ND		1.0	0.73	ug/L			09/03/13 21:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/03/13 21:03	1
Toluene	**11**		1.0	0.51	ug/L			09/03/13 21:03	1
trans-1,2-Dichloroethene	**880**	**E**	1.0	0.90	ug/L			09/03/13 21:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/03/13 21:03	1
Trichloroethene	**190**	**E**	1.0	0.46	ug/L			09/03/13 21:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/03/13 21:03	1
Vinyl chloride	**4200**	**E**	1.0	0.90	ug/L			09/03/13 21:03	1
Xylenes, Total	**3.4**		2.0	0.66	ug/L			09/03/13 21:03	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-1
Date Collected: 08/30/13 12:00
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Ethyl ether	5.2		ug/L		2.66	60-29-7		09/03/13 21:03	1
1-Pentene, 2,4,4-trimethyl-	6.4	T J N	ug/L		5.88	107-39-1		09/03/13 21:03	1
n-Butanol	63		ug/L		5.89	71-36-3		09/03/13 21:03	1
2-Nitropropane	16		ug/L		6.68	79-46-9		09/03/13 21:03	1
Unknown	8.4	T J	ug/L		7.45			09/03/13 21:03	1
2-Pentanone, 4,4-dimethyl-	2.7	T J N	ug/L		7.66	590-50-1		09/03/13 21:03	1
m-Xylene & p-Xylene	2.3		ug/L		8.87	179601-23-1		09/03/13 21:03	1
Acetic acid, cyano-, 1,1-dimethylethyl e	14	T J N	ug/L		8.94	1116-98-9		09/03/13 21:03	1
Naphthalene	2.4		ug/L		12.98	91-20-3		09/03/13 21:03	1
Naphthalene, 2-methyl-	3.4	T J N	ug/L		14.05	91-57-6		09/03/13 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/03/13 21:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/03/13 21:03	1
Toluene-d8 (Surr)	101		71 - 126		09/03/13 21:03	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1000	820	ug/L			09/04/13 15:08	1000
1,1,2,2-Tetrachloroethane	ND		1000	210	ug/L			09/04/13 15:08	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310	ug/L			09/04/13 15:08	1000
1,1,2-Trichloroethane	ND		1000	230	ug/L			09/04/13 15:08	1000
1,1-Dichloroethane	ND		1000	380	ug/L			09/04/13 15:08	1000
1,1-Dichloroethene	ND		1000	290	ug/L			09/04/13 15:08	1000
1,2,4-Trichlorobenzene	ND		1000	410	ug/L			09/04/13 15:08	1000
1,2-Dibromo-3-Chloropropane	ND	*	1000	390	ug/L			09/04/13 15:08	1000
1,2-Dibromoethane	ND		1000	730	ug/L			09/04/13 15:08	1000
1,2-Dichlorobenzene	ND		1000	790	ug/L			09/04/13 15:08	1000
1,2-Dichloroethane	ND		1000	210	ug/L			09/04/13 15:08	1000
1,2-Dichloropropane	ND		1000	720	ug/L			09/04/13 15:08	1000
1,3-Dichlorobenzene	ND		1000	780	ug/L			09/04/13 15:08	1000
1,4-Dichlorobenzene	ND		1000	840	ug/L			09/04/13 15:08	1000
2-Butanone (MEK)	ND		10000	1300	ug/L			09/04/13 15:08	1000
2-Hexanone	ND		5000	1200	ug/L			09/04/13 15:08	1000
4-Methyl-2-pentanone (MIBK)	ND		5000	2100	ug/L			09/04/13 15:08	1000
Acetone	ND		10000	3000	ug/L			09/04/13 15:08	1000
Benzene	ND		1000	410	ug/L			09/04/13 15:08	1000
Bromodichloromethane	ND		1000	390	ug/L			09/04/13 15:08	1000
Bromoform	ND		1000	260	ug/L			09/04/13 15:08	1000
Bromomethane	ND		1000	690	ug/L			09/04/13 15:08	1000
Carbon disulfide	ND		1000	190	ug/L			09/04/13 15:08	1000
Carbon tetrachloride	ND		1000	270	ug/L			09/04/13 15:08	1000
Chlorobenzene	ND		1000	750	ug/L			09/04/13 15:08	1000
Chloroethane	ND		1000	320	ug/L			09/04/13 15:08	1000
Chloroform	ND		1000	340	ug/L			09/04/13 15:08	1000
Chloromethane	ND		1000	350	ug/L			09/04/13 15:08	1000
cis-1,2-Dichloroethene	**43000**		1000	810	ug/L			09/04/13 15:08	1000
cis-1,3-Dichloropropene	ND		1000	360	ug/L			09/04/13 15:08	1000
Cyclohexane	ND		1000	180	ug/L			09/04/13 15:08	1000
Dibromochloromethane	ND		1000	320	ug/L			09/04/13 15:08	1000

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-1
Date Collected: 08/30/13 12:00
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1000	680	ug/L			09/04/13 15:08	1000
Ethylbenzene	ND		1000	740	ug/L			09/04/13 15:08	1000
Isopropylbenzene	ND		1000	790	ug/L			09/04/13 15:08	1000
Methyl acetate	ND		1000	500	ug/L			09/04/13 15:08	1000
Methyl tert-butyl ether	ND		1000	160	ug/L			09/04/13 15:08	1000
Methylcyclohexane	ND		1000	160	ug/L			09/04/13 15:08	1000
Methylene Chloride	ND		1000	440	ug/L			09/04/13 15:08	1000
Styrene	ND		1000	730	ug/L			09/04/13 15:08	1000
Tetrachloroethene	ND		1000	360	ug/L			09/04/13 15:08	1000
Toluene	ND		1000	510	ug/L			09/04/13 15:08	1000
trans-1,2-Dichloroethene	ND		1000	900	ug/L			09/04/13 15:08	1000
trans-1,3-Dichloropropene	ND		1000	370	ug/L			09/04/13 15:08	1000
Trichloroethene	ND		1000	460	ug/L			09/04/13 15:08	1000
Trichlorofluoromethane	ND		1000	880	ug/L			09/04/13 15:08	1000
Vinyl chloride	**5300**		1000	900	ug/L			09/04/13 15:08	1000
Xylenes, Total	ND		2000	660	ug/L			09/04/13 15:08	1000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/04/13 15:08*	*1000*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*09/04/13 15:08*	*1000*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*09/04/13 15:08*	*1000*
Toluene-d8 (Surr)	*100*		*71 - 126*		*09/04/13 15:08*	*1000*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.72**	**B**	0.20	0.060	mg/L		09/03/13 08:40	09/04/13 10:33	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 08:40	09/04/13 10:33	1
Arsenic	**0.015**		0.010	0.0056	mg/L		09/03/13 08:40	09/04/13 10:33	1
Barium	**0.31**		0.0020	0.00070	mg/L		09/03/13 08:40	09/04/13 10:33	1
Beryllium	ND		0.0020	0.00030	mg/L		09/03/13 08:40	09/04/13 10:33	1
Cadmium	ND		0.0010	0.00050	mg/L		09/03/13 08:40	09/04/13 10:33	1
Calcium	**112**	**B**	0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:33	1
Chromium	**0.0016**	**J**	0.0040	0.0010	mg/L		09/03/13 08:40	09/04/13 10:33	1
Cobalt	ND		0.0040	0.00063	mg/L		09/03/13 08:40	09/04/13 10:33	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		09/03/13 08:40	09/04/13 10:33	1
Iron	**12.0**		0.050	0.019	mg/L		09/03/13 08:40	09/04/13 10:33	1
Lead	ND		0.0050	0.0030	mg/L		09/03/13 08:40	09/04/13 10:33	1
Magnesium	**61.4**		0.20	0.043	mg/L		09/03/13 08:40	09/04/13 10:33	1
Manganese	**0.28**	**B**	0.0030	0.00040	mg/L		09/03/13 08:40	09/04/13 10:33	1
Nickel	**0.0015**	**J**	0.010	0.0013	mg/L		09/03/13 08:40	09/04/13 10:33	1
Potassium	**6.1**		0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:33	1
Selenium	ND		0.015	0.0087	mg/L		09/03/13 08:40	09/04/13 10:33	1
Silver	ND		0.0030	0.0017	mg/L		09/03/13 08:40	09/04/13 10:33	1
Sodium	**37.1**		1.0	0.32	mg/L		09/03/13 08:40	09/04/13 10:33	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 08:40	09/04/13 10:33	1
Vanadium	ND		0.0050	0.0015	mg/L		09/03/13 08:40	09/04/13 10:33	1
Zinc	**0.023**		0.010	0.0015	mg/L		09/03/13 08:40	09/04/13 10:33	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-1
Date Collected: 08/30/13 12:00
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-1
Matrix: Water

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.063**	**J**	0.20	0.060	mg/L		09/04/13 15:30	09/05/13 10:45	1
Antimony	ND		0.020	0.0068	mg/L		09/04/13 15:30	09/05/13 10:45	1
Arsenic	ND		0.010	0.0056	mg/L		09/04/13 15:30	09/05/13 10:45	1
Barium	**0.25**	**B**	0.0020	0.00070	mg/L		09/04/13 15:30	09/05/13 10:45	1
Beryllium	ND		0.0020	0.00030	mg/L		09/04/13 15:30	09/05/13 10:45	1
Cadmium	ND		0.0010	0.00050	mg/L		09/04/13 15:30	09/05/13 10:45	1
Calcium	**103**	**B**	0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:45	1
Chromium	**0.0022**	**J B**	0.0040	0.0010	mg/L		09/04/13 15:30	09/05/13 10:45	1
Cobalt	ND		0.0040	0.00063	mg/L		09/04/13 15:30	09/05/13 10:45	1
Copper	ND		0.010	0.0016	mg/L		09/04/13 15:30	09/05/13 10:45	1
Iron	**0.075**		0.050	0.019	mg/L		09/04/13 15:30	09/05/13 10:45	1
Lead	ND		0.0050	0.0030	mg/L		09/04/13 15:30	09/05/13 10:45	1
Magnesium	**56.3**		0.20	0.043	mg/L		09/04/13 15:30	09/05/13 10:45	1
Manganese	**0.24**		0.0030	0.00040	mg/L		09/04/13 15:30	09/05/13 10:45	1
Nickel	ND		0.010	0.0013	mg/L		09/04/13 15:30	09/05/13 10:45	1
Potassium	**5.6**		0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:45	1
Selenium	ND		0.015	0.0087	mg/L		09/04/13 15:30	09/05/13 10:45	1
Silver	ND		0.0030	0.0017	mg/L		09/04/13 15:30	09/05/13 10:45	1
Sodium	**35.1**		1.0	0.32	mg/L		09/04/13 15:30	09/05/13 10:45	1
Thallium	ND		0.020	0.010	mg/L		09/04/13 15:30	09/05/13 10:45	1
Vanadium	ND		0.0050	0.0015	mg/L		09/04/13 15:30	09/05/13 10:45	1
Zinc	**0.0087**	**J B**	0.010	0.0015	mg/L		09/04/13 15:30	09/05/13 10:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/03/13 09:20	09/03/13 12:42	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/04/13 09:00	09/04/13 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**496**		100	40.0	mg/L			09/03/13 16:21	10

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-2
Date Collected: 08/30/13 11:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/03/13 21:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/03/13 21:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/03/13 21:26	1
1,1,2-Trichloroethane	**8.3**		1.0	0.23	ug/L			09/03/13 21:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/03/13 21:26	1
1,1-Dichloroethene	**110**	**E**	1.0	0.29	ug/L			09/03/13 21:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/03/13 21:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/03/13 21:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/03/13 21:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/03/13 21:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/03/13 21:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/03/13 21:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/03/13 21:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/03/13 21:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/03/13 21:26	1
2-Hexanone	ND		5.0	1.2	ug/L			09/03/13 21:26	1
4-Methyl-2-pentanone (MIBK)	**5.0**		5.0	2.1	ug/L			09/03/13 21:26	1
Acetone	**6.1**	**J**	10	3.0	ug/L			09/03/13 21:26	1
Benzene	**2.1**		1.0	0.41	ug/L			09/03/13 21:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/03/13 21:26	1
Bromoform	ND		1.0	0.26	ug/L			09/03/13 21:26	1
Bromomethane	ND		1.0	0.69	ug/L			09/03/13 21:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/03/13 21:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/03/13 21:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/03/13 21:26	1
Chloroethane	ND		1.0	0.32	ug/L			09/03/13 21:26	1
Chloroform	ND		1.0	0.34	ug/L			09/03/13 21:26	1
Chloromethane	ND		1.0	0.35	ug/L			09/03/13 21:26	1
cis-1,2-Dichloroethene	**11000**	**E**	1.0	0.81	ug/L			09/03/13 21:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/03/13 21:26	1
Cyclohexane	**2.3**		1.0	0.18	ug/L			09/03/13 21:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/03/13 21:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/03/13 21:26	1
Ethylbenzene	**1.4**		1.0	0.74	ug/L			09/03/13 21:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/03/13 21:26	1
Methyl acetate	ND		1.0	0.50	ug/L			09/03/13 21:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/03/13 21:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/03/13 21:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/03/13 21:26	1
Styrene	ND		1.0	0.73	ug/L			09/03/13 21:26	1
Tetrachloroethene	**8.2**		1.0	0.36	ug/L			09/03/13 21:26	1
Toluene	**19**		1.0	0.51	ug/L			09/03/13 21:26	1
trans-1,2-Dichloroethene	**480**	**E**	1.0	0.90	ug/L			09/03/13 21:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/03/13 21:26	1
Trichloroethene	**11000**	**E**	1.0	0.46	ug/L			09/03/13 21:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/03/13 21:26	1
Vinyl chloride	**1400**	**E**	1.0	0.90	ug/L			09/03/13 21:26	1
Xylenes, Total	**6.3**		2.0	0.66	ug/L			09/03/13 21:26	1

Client Sample ID: SVE-2
Date Collected: 08/30/13 11:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-2
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexane	1.4	J	ug/L		3.83	110-54-3		09/03/13 21:26	1
n-Heptane	1.0	J	ug/L		5.57	142-82-5		09/03/13 21:26	1
Unknown	1000	T J	ug/L		6.14			09/03/13 21:26	1
m-Xylene & p-Xylene	3.5		ug/L		8.88	179601-23-1		09/03/13 21:26	1
Acetic acid, cyano-, 1,1-dimethylethyl e	21	T J N	ug/L		8.94	1116-98-9		09/03/13 21:26	1
o-Xylene	2.8		ug/L		9.30	95-47-6		09/03/13 21:26	1
1,2,3-Trichloropropane	1.4		ug/L		10.09	96-18-4		09/03/13 21:26	1
1,2,4-Trimethylbenzene	1.7		ug/L		10.64	95-63-6		09/03/13 21:26	1
1,2,3-Trimethylbenzene	1.0		ug/L		11.05	526-73-8		09/03/13 21:26	1
Naphthalene	1.4		ug/L		12.98	91-20-3		09/03/13 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 137		09/03/13 21:26	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/03/13 21:26	1
Toluene-d8 (Surr)	96		71 - 126		09/03/13 21:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2000	1600	ug/L			09/04/13 15:31	2000
1,1,2,2-Tetrachloroethane	ND		2000	420	ug/L			09/04/13 15:31	2000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2000	620	ug/L			09/04/13 15:31	2000
1,1,2-Trichloroethane	ND		2000	460	ug/L			09/04/13 15:31	2000
1,1-Dichloroethane	ND		2000	760	ug/L			09/04/13 15:31	2000
1,1-Dichloroethene	ND		2000	580	ug/L			09/04/13 15:31	2000
1,2,4-Trichlorobenzene	ND		2000	820	ug/L			09/04/13 15:31	2000
1,2-Dibromo-3-Chloropropane	ND	*	2000	780	ug/L			09/04/13 15:31	2000
1,2-Dibromoethane	ND		2000	1500	ug/L			09/04/13 15:31	2000
1,2-Dichlorobenzene	ND		2000	1600	ug/L			09/04/13 15:31	2000
1,2-Dichloroethane	ND		2000	420	ug/L			09/04/13 15:31	2000
1,2-Dichloropropane	ND		2000	1400	ug/L			09/04/13 15:31	2000
1,3-Dichlorobenzene	ND		2000	1600	ug/L			09/04/13 15:31	2000
1,4-Dichlorobenzene	ND		2000	1700	ug/L			09/04/13 15:31	2000
2-Butanone (MEK)	ND		20000	2600	ug/L			09/04/13 15:31	2000
2-Hexanone	ND		10000	2500	ug/L			09/04/13 15:31	2000
4-Methyl-2-pentanone (MIBK)	ND		10000	4200	ug/L			09/04/13 15:31	2000
Acetone	ND		20000	6000	ug/L			09/04/13 15:31	2000
Benzene	ND		2000	820	ug/L			09/04/13 15:31	2000
Bromodichloromethane	ND		2000	780	ug/L			09/04/13 15:31	2000
Bromoform	ND		2000	520	ug/L			09/04/13 15:31	2000
Bromomethane	ND		2000	1400	ug/L			09/04/13 15:31	2000
Carbon disulfide	ND		2000	380	ug/L			09/04/13 15:31	2000
Carbon tetrachloride	ND		2000	540	ug/L			09/04/13 15:31	2000
Chlorobenzene	ND		2000	1500	ug/L			09/04/13 15:31	2000
Chloroethane	ND		2000	640	ug/L			09/04/13 15:31	2000
Chloroform	ND		2000	680	ug/L			09/04/13 15:31	2000
Chloromethane	ND		2000	700	ug/L			09/04/13 15:31	2000
cis-1,2-Dichloroethene	**17000**		2000	1600	ug/L			09/04/13 15:31	2000
cis-1,3-Dichloropropene	ND		2000	720	ug/L			09/04/13 15:31	2000
Cyclohexane	ND		2000	360	ug/L			09/04/13 15:31	2000
Dibromochloromethane	ND		2000	640	ug/L			09/04/13 15:31	2000

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-2
Date Collected: 08/30/13 11:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2000	1400	ug/L			09/04/13 15:31	2000
Ethylbenzene	ND		2000	1500	ug/L			09/04/13 15:31	2000
Isopropylbenzene	ND		2000	1600	ug/L			09/04/13 15:31	2000
Methyl acetate	ND		2000	1000	ug/L			09/04/13 15:31	2000
Methyl tert-butyl ether	ND		2000	320	ug/L			09/04/13 15:31	2000
Methylcyclohexane	ND		2000	320	ug/L			09/04/13 15:31	2000
Methylene Chloride	ND		2000	880	ug/L			09/04/13 15:31	2000
Styrene	ND		2000	1500	ug/L			09/04/13 15:31	2000
Tetrachloroethene	ND		2000	720	ug/L			09/04/13 15:31	2000
Toluene	ND		2000	1000	ug/L			09/04/13 15:31	2000
trans-1,2-Dichloroethene	ND		2000	1800	ug/L			09/04/13 15:31	2000
trans-1,3-Dichloropropene	ND		2000	740	ug/L			09/04/13 15:31	2000
Trichloroethene	**91000**		2000	920	ug/L			09/04/13 15:31	2000
Trichlorofluoromethane	ND		2000	1800	ug/L			09/04/13 15:31	2000
Vinyl chloride	ND		2000	1800	ug/L			09/04/13 15:31	2000
Xylenes, Total	ND		4000	1300	ug/L			09/04/13 15:31	2000

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/04/13 15:31*	*2000*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*09/04/13 15:31*	*2000*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*09/04/13 15:31*	*2000*
Toluene-d8 (Surr)	*102*		*71 - 126*		*09/04/13 15:31*	*2000*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**26.7**	**B**	0.20	0.060	mg/L		09/03/13 08:40	09/04/13 10:36	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 08:40	09/04/13 10:36	1
Arsenic	**0.012**		0.010	0.0056	mg/L		09/03/13 08:40	09/04/13 10:36	1
Barium	**0.40**		0.0020	0.00070	mg/L		09/03/13 08:40	09/04/13 10:36	1
Beryllium	**0.0013**	**J**	0.0020	0.00030	mg/L		09/03/13 08:40	09/04/13 10:36	1
Cadmium	**0.00074**	**J**	0.0010	0.00050	mg/L		09/03/13 08:40	09/04/13 10:36	1
Calcium	**336**	**B**	0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:36	1
Chromium	**0.041**		0.0040	0.0010	mg/L		09/03/13 08:40	09/04/13 10:36	1
Cobalt	**0.017**		0.0040	0.00063	mg/L		09/03/13 08:40	09/04/13 10:36	1
Copper	**0.037**		0.010	0.0016	mg/L		09/03/13 08:40	09/04/13 10:36	1
Iron	**38.1**		0.050	0.019	mg/L		09/03/13 08:40	09/04/13 10:36	1
Lead	**0.020**		0.0050	0.0030	mg/L		09/03/13 08:40	09/04/13 10:36	1
Magnesium	**122**		0.20	0.043	mg/L		09/03/13 08:40	09/04/13 10:36	1
Manganese	**2.7**	**B**	0.0030	0.00040	mg/L		09/03/13 08:40	09/04/13 10:36	1
Nickel	**0.039**		0.010	0.0013	mg/L		09/03/13 08:40	09/04/13 10:36	1
Potassium	**12.8**		0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:36	1
Selenium	ND		0.015	0.0087	mg/L		09/03/13 08:40	09/04/13 10:36	1
Silver	ND		0.0030	0.0017	mg/L		09/03/13 08:40	09/04/13 10:36	1
Sodium	**30.6**		1.0	0.32	mg/L		09/03/13 08:40	09/04/13 10:36	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 08:40	09/04/13 10:36	1
Vanadium	**0.050**		0.0050	0.0015	mg/L		09/03/13 08:40	09/04/13 10:36	1
Zinc	**0.098**		0.010	0.0015	mg/L		09/03/13 08:40	09/04/13 10:36	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-2
Date Collected: 08/30/13 11:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-2
Matrix: Water

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.10**	**J**	0.20	0.060	mg/L		09/04/13 15:30	09/05/13 10:47	1
Antimony	ND		0.020	0.0068	mg/L		09/04/13 15:30	09/05/13 10:47	1
Arsenic	ND		0.010	0.0056	mg/L		09/04/13 15:30	09/05/13 10:47	1
Barium	**0.20**	**B**	0.0020	0.00070	mg/L		09/04/13 15:30	09/05/13 10:47	1
Beryllium	ND		0.0020	0.00030	mg/L		09/04/13 15:30	09/05/13 10:47	1
Cadmium	ND		0.0010	0.00050	mg/L		09/04/13 15:30	09/05/13 10:47	1
Calcium	**177**	**B**	0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:47	1
Chromium	**0.0029**	**J B**	0.0040	0.0010	mg/L		09/04/13 15:30	09/05/13 10:47	1
Cobalt	**0.0013**	**J**	0.0040	0.00063	mg/L		09/04/13 15:30	09/05/13 10:47	1
Copper	**0.0041**	**J**	0.010	0.0016	mg/L		09/04/13 15:30	09/05/13 10:47	1
Iron	ND		0.050	0.019	mg/L		09/04/13 15:30	09/05/13 10:47	1
Lead	ND		0.0050	0.0030	mg/L		09/04/13 15:30	09/05/13 10:47	1
Magnesium	**75.2**		0.20	0.043	mg/L		09/04/13 15:30	09/05/13 10:47	1
Manganese	**1.2**		0.0030	0.00040	mg/L		09/04/13 15:30	09/05/13 10:47	1
Nickel	**0.0075**	**J**	0.010	0.0013	mg/L		09/04/13 15:30	09/05/13 10:47	1
Potassium	**5.8**		0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:47	1
Selenium	ND		0.015	0.0087	mg/L		09/04/13 15:30	09/05/13 10:47	1
Silver	ND		0.0030	0.0017	mg/L		09/04/13 15:30	09/05/13 10:47	1
Sodium	**28.1**		1.0	0.32	mg/L		09/04/13 15:30	09/05/13 10:47	1
Thallium	ND		0.020	0.010	mg/L		09/04/13 15:30	09/05/13 10:47	1
Vanadium	ND		0.0050	0.0015	mg/L		09/04/13 15:30	09/05/13 10:47	1
Zinc	**0.0086**	**J B**	0.010	0.0015	mg/L		09/04/13 15:30	09/05/13 10:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/03/13 09:20	09/03/13 12:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/04/13 09:00	09/04/13 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**744**		100	40.0	mg/L			09/03/13 16:21	10

Client Sample ID: MP-1
Date Collected: 08/30/13 10:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/03/13 21:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/03/13 21:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/03/13 21:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/03/13 21:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/03/13 21:49	1
1,1-Dichloroethene	**2.9**		1.0	0.29	ug/L			09/03/13 21:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/03/13 21:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/03/13 21:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/03/13 21:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/03/13 21:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/03/13 21:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/03/13 21:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/03/13 21:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/03/13 21:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/03/13 21:49	1
2-Hexanone	ND		5.0	1.2	ug/L			09/03/13 21:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/03/13 21:49	1
Acetone	ND		10	3.0	ug/L			09/03/13 21:49	1
Benzene	ND		1.0	0.41	ug/L			09/03/13 21:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/03/13 21:49	1
Bromoform	ND		1.0	0.26	ug/L			09/03/13 21:49	1
Bromomethane	ND		1.0	0.69	ug/L			09/03/13 21:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/03/13 21:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/03/13 21:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/03/13 21:49	1
Chloroethane	**5.2**		1.0	0.32	ug/L			09/03/13 21:49	1
Chloroform	ND		1.0	0.34	ug/L			09/03/13 21:49	1
Chloromethane	ND		1.0	0.35	ug/L			09/03/13 21:49	1
cis-1,2-Dichloroethene	**2700**	**E**	1.0	0.81	ug/L			09/03/13 21:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/03/13 21:49	1
Cyclohexane	ND		1.0	0.18	ug/L			09/03/13 21:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/03/13 21:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/03/13 21:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/03/13 21:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/03/13 21:49	1
Methyl acetate	ND		1.0	0.50	ug/L			09/03/13 21:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/03/13 21:49	1
Methylcyclohexane	**0.86**	**J**	1.0	0.16	ug/L			09/03/13 21:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/03/13 21:49	1
Styrene	ND		1.0	0.73	ug/L			09/03/13 21:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/03/13 21:49	1
Toluene	**0.57**	**J**	1.0	0.51	ug/L			09/03/13 21:49	1
trans-1,2-Dichloroethene	**26**		1.0	0.90	ug/L			09/03/13 21:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/03/13 21:49	1
Trichloroethene	**390**	**E**	1.0	0.46	ug/L			09/03/13 21:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/03/13 21:49	1
Vinyl chloride	**630**	**E**	1.0	0.90	ug/L			09/03/13 21:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/03/13 21:49	1

Client Sample ID: MP-1
Date Collected: 08/30/13 10:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-3
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexane	0.72	J	ug/L		3.83	110-54-3		09/03/13 21:49	1
Unknown	98	T J	ug/L		4.65			09/03/13 21:49	1
n-Heptane	0.65	J	ug/L		5.56	142-82-5		09/03/13 21:49	1
Naphthalene	1.0		ug/L		12.98	91-20-3		09/03/13 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		66 - 137		09/03/13 21:49	1
4-Bromofluorobenzene (Surr)	101		73 - 120		09/03/13 21:49	1
Toluene-d8 (Surr)	102		71 - 126		09/03/13 21:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			09/04/13 15:53	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			09/04/13 15:53	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			09/04/13 15:53	100
1,1,2-Trichloroethane	ND		100	23	ug/L			09/04/13 15:53	100
1,1-Dichloroethane	ND		100	38	ug/L			09/04/13 15:53	100
1,1-Dichloroethene	ND		100	29	ug/L			09/04/13 15:53	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			09/04/13 15:53	100
1,2-Dibromo-3-Chloropropane	ND	*	100	39	ug/L			09/04/13 15:53	100
1,2-Dibromoethane	ND		100	73	ug/L			09/04/13 15:53	100
1,2-Dichlorobenzene	ND		100	79	ug/L			09/04/13 15:53	100
1,2-Dichloroethane	ND		100	21	ug/L			09/04/13 15:53	100
1,2-Dichloropropane	ND		100	72	ug/L			09/04/13 15:53	100
1,3-Dichlorobenzene	ND		100	78	ug/L			09/04/13 15:53	100
1,4-Dichlorobenzene	ND		100	84	ug/L			09/04/13 15:53	100
2-Butanone (MEK)	ND		1000	130	ug/L			09/04/13 15:53	100
2-Hexanone	ND		500	120	ug/L			09/04/13 15:53	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			09/04/13 15:53	100
Acetone	ND		1000	300	ug/L			09/04/13 15:53	100
Benzene	ND		100	41	ug/L			09/04/13 15:53	100
Bromodichloromethane	ND		100	39	ug/L			09/04/13 15:53	100
Bromoform	ND		100	26	ug/L			09/04/13 15:53	100
Bromomethane	ND		100	69	ug/L			09/04/13 15:53	100
Carbon disulfide	ND		100	19	ug/L			09/04/13 15:53	100
Carbon tetrachloride	ND		100	27	ug/L			09/04/13 15:53	100
Chlorobenzene	ND		100	75	ug/L			09/04/13 15:53	100
Chloroethane	ND		100	32	ug/L			09/04/13 15:53	100
Chloroform	ND		100	34	ug/L			09/04/13 15:53	100
Chloromethane	ND		100	35	ug/L			09/04/13 15:53	100
cis-1,2-Dichloroethene	**4900**		100	81	ug/L			09/04/13 15:53	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			09/04/13 15:53	100
Cyclohexane	ND		100	18	ug/L			09/04/13 15:53	100
Dibromochloromethane	ND		100	32	ug/L			09/04/13 15:53	100
Dichlorodifluoromethane	ND		100	68	ug/L			09/04/13 15:53	100
Ethylbenzene	ND		100	74	ug/L			09/04/13 15:53	100
Isopropylbenzene	ND		100	79	ug/L			09/04/13 15:53	100
Methyl acetate	ND		100	50	ug/L			09/04/13 15:53	100
Methyl tert-butyl ether	ND		100	16	ug/L			09/04/13 15:53	100
Methylcyclohexane	ND		100	16	ug/L			09/04/13 15:53	100

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-1
Date Collected: 08/30/13 10:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		100	44	ug/L			09/04/13 15:53	100
Styrene	ND		100	73	ug/L			09/04/13 15:53	100
Tetrachloroethene	ND		100	36	ug/L			09/04/13 15:53	100
Toluene	ND		100	51	ug/L			09/04/13 15:53	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			09/04/13 15:53	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			09/04/13 15:53	100
Trichloroethene	**360**		100	46	ug/L			09/04/13 15:53	100
Trichlorofluoromethane	ND		100	88	ug/L			09/04/13 15:53	100
Vinyl chloride	**500**		100	90	ug/L			09/04/13 15:53	100
Xylenes, Total	ND		200	66	ug/L			09/04/13 15:53	100

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/04/13 15:53*	*100*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*66 - 137*		*09/04/13 15:53*	*100*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*09/04/13 15:53*	*100*
Toluene-d8 (Surr)	*101*		*71 - 126*		*09/04/13 15:53*	*100*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**95.8**	**B**	0.20	0.060	mg/L		09/03/13 08:40	09/04/13 10:58	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 08:40	09/04/13 10:58	1
Arsenic	**0.042**		0.010	0.0056	mg/L		09/03/13 08:40	09/04/13 10:58	1
Barium	**1.2**		0.0020	0.00070	mg/L		09/03/13 08:40	09/04/13 10:58	1
Beryllium	**0.0048**		0.0020	0.00030	mg/L		09/03/13 08:40	09/04/13 10:58	1
Cadmium	**0.0017**		0.0010	0.00050	mg/L		09/03/13 08:40	09/04/13 10:58	1
Calcium	**945**	**B**	0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:58	1
Chromium	**0.16**		0.0040	0.0010	mg/L		09/03/13 08:40	09/04/13 10:58	1
Cobalt	**0.079**		0.0040	0.00063	mg/L		09/03/13 08:40	09/04/13 10:58	1
Copper	**0.12**		0.010	0.0016	mg/L		09/03/13 08:40	09/04/13 10:58	1
Iron	**153**		0.050	0.019	mg/L		09/03/13 08:40	09/04/13 10:58	1
Lead	**0.050**		0.0050	0.0030	mg/L		09/03/13 08:40	09/04/13 10:58	1
Magnesium	**158**		0.20	0.043	mg/L		09/03/13 08:40	09/04/13 10:58	1
Manganese	**7.5**	**B**	0.0030	0.00040	mg/L		09/03/13 08:40	09/04/13 10:58	1
Nickel	**0.17**		0.010	0.0013	mg/L		09/03/13 08:40	09/04/13 10:58	1
Potassium	**27.1**		0.50	0.10	mg/L		09/03/13 08:40	09/04/13 10:58	1
Selenium	**0.012**	**J**	0.015	0.0087	mg/L		09/03/13 08:40	09/04/13 10:58	1
Silver	ND		0.0030	0.0017	mg/L		09/03/13 08:40	09/04/13 10:58	1
Sodium	**25.8**		1.0	0.32	mg/L		09/03/13 08:40	09/04/13 10:58	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 08:40	09/04/13 10:58	1
Vanadium	**0.20**		0.0050	0.0015	mg/L		09/03/13 08:40	09/04/13 10:58	1
Zinc	**0.31**		0.010	0.0015	mg/L		09/03/13 08:40	09/04/13 10:58	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.065**	**J**	0.20	0.060	mg/L		09/04/13 15:30	09/05/13 10:50	1
Antimony	ND		0.020	0.0068	mg/L		09/04/13 15:30	09/05/13 10:50	1
Arsenic	ND		0.010	0.0056	mg/L		09/04/13 15:30	09/05/13 10:50	1
Barium	**0.16**	**B**	0.0020	0.00070	mg/L		09/04/13 15:30	09/05/13 10:50	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-1
Date Collected: 08/30/13 10:30
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-3
Matrix: Water

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020	0.00030	mg/L		09/04/13 15:30	09/05/13 10:50	1
Cadmium	ND		0.0010	0.00050	mg/L		09/04/13 15:30	09/05/13 10:50	1
Calcium	**134**	**B**	0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:50	1
Chromium	**0.0028**	**J B**	0.0040	0.0010	mg/L		09/04/13 15:30	09/05/13 10:50	1
Cobalt	**0.0017**	**J**	0.0040	0.00063	mg/L		09/04/13 15:30	09/05/13 10:50	1
Copper	**0.0018**	**J**	0.010	0.0016	mg/L		09/04/13 15:30	09/05/13 10:50	1
Iron	ND		0.050	0.019	mg/L		09/04/13 15:30	09/05/13 10:50	1
Lead	ND		0.0050	0.0030	mg/L		09/04/13 15:30	09/05/13 10:50	1
Magnesium	**50.5**		0.20	0.043	mg/L		09/04/13 15:30	09/05/13 10:50	1
Manganese	**0.73**		0.0030	0.00040	mg/L		09/04/13 15:30	09/05/13 10:50	1
Nickel	**0.0044**	**J**	0.010	0.0013	mg/L		09/04/13 15:30	09/05/13 10:50	1
Potassium	**5.3**		0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:50	1
Selenium	ND		0.015	0.0087	mg/L		09/04/13 15:30	09/05/13 10:50	1
Silver	ND		0.0030	0.0017	mg/L		09/04/13 15:30	09/05/13 10:50	1
Sodium	**23.1**		1.0	0.32	mg/L		09/04/13 15:30	09/05/13 10:50	1
Thallium	ND		0.020	0.010	mg/L		09/04/13 15:30	09/05/13 10:50	1
Vanadium	ND		0.0050	0.0015	mg/L		09/04/13 15:30	09/05/13 10:50	1
Zinc	**0.0047**	**J B**	0.010	0.0015	mg/L		09/04/13 15:30	09/05/13 10:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/03/13 09:20	09/03/13 12:49	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/04/13 09:00	09/04/13 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	**563**		100	40.0	mg/L			09/03/13 16:21	10

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-2
Date Collected: 08/30/13 10:50
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/03/13 22:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/03/13 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/03/13 22:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/03/13 22:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/03/13 22:12	1
1,1-Dichloroethene	**0.62**	**J**	1.0	0.29	ug/L			09/03/13 22:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/03/13 22:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/03/13 22:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/03/13 22:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/03/13 22:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/03/13 22:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/03/13 22:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/03/13 22:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/03/13 22:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/03/13 22:12	1
2-Hexanone	ND		5.0	1.2	ug/L			09/03/13 22:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/03/13 22:12	1
Acetone	ND		10	3.0	ug/L			09/03/13 22:12	1
Benzene	ND		1.0	0.41	ug/L			09/03/13 22:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/03/13 22:12	1
Bromoform	ND		1.0	0.26	ug/L			09/03/13 22:12	1
Bromomethane	ND		1.0	0.69	ug/L			09/03/13 22:12	1
Carbon disulfide	**1.7**	**B**	1.0	0.19	ug/L			09/03/13 22:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/03/13 22:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/03/13 22:12	1
Chloroethane	**1.4**		1.0	0.32	ug/L			09/03/13 22:12	1
Chloroform	ND		1.0	0.34	ug/L			09/03/13 22:12	1
Chloromethane	ND		1.0	0.35	ug/L			09/03/13 22:12	1
cis-1,2-Dichloroethene	**810**	**E**	1.0	0.81	ug/L			09/03/13 22:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/03/13 22:12	1
Cyclohexane	ND		1.0	0.18	ug/L			09/03/13 22:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/03/13 22:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/03/13 22:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/03/13 22:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/03/13 22:12	1
Methyl acetate	ND		1.0	0.50	ug/L			09/03/13 22:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/03/13 22:12	1
Methylcyclohexane	**0.81**	**J**	1.0	0.16	ug/L			09/03/13 22:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/03/13 22:12	1
Styrene	ND		1.0	0.73	ug/L			09/03/13 22:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/03/13 22:12	1
Toluene	ND		1.0	0.51	ug/L			09/03/13 22:12	1
trans-1,2-Dichloroethene	**4.5**		1.0	0.90	ug/L			09/03/13 22:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/03/13 22:12	1
Trichloroethene	**66**		1.0	0.46	ug/L			09/03/13 22:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/03/13 22:12	1
Vinyl chloride	**130**	**E**	1.0	0.90	ug/L			09/03/13 22:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/03/13 22:12	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-2
Date Collected: 08/30/13 10:50
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-4
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexane	0.68	J	ug/L		3.83	110-54-3		09/03/13 22:12	1
Unknown	18	T J	ug/L		4.65			09/03/13 22:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		09/03/13 22:12	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/03/13 22:12	1
Toluene-d8 (Surr)	102		71 - 126		09/03/13 22:12	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			09/04/13 16:16	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			09/04/13 16:16	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			09/04/13 16:16	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			09/04/13 16:16	20
1,1-Dichloroethane	ND		20	7.6	ug/L			09/04/13 16:16	20
1,1-Dichloroethene	ND		20	5.8	ug/L			09/04/13 16:16	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			09/04/13 16:16	20
1,2-Dibromo-3-Chloropropane	ND	*	20	7.8	ug/L			09/04/13 16:16	20
1,2-Dibromoethane	ND		20	15	ug/L			09/04/13 16:16	20
1,2-Dichlorobenzene	ND		20	16	ug/L			09/04/13 16:16	20
1,2-Dichloroethane	ND		20	4.2	ug/L			09/04/13 16:16	20
1,2-Dichloropropane	ND		20	14	ug/L			09/04/13 16:16	20
1,3-Dichlorobenzene	ND		20	16	ug/L			09/04/13 16:16	20
1,4-Dichlorobenzene	ND		20	17	ug/L			09/04/13 16:16	20
2-Butanone (MEK)	ND		200	26	ug/L			09/04/13 16:16	20
2-Hexanone	ND		100	25	ug/L			09/04/13 16:16	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			09/04/13 16:16	20
Acetone	ND		200	60	ug/L			09/04/13 16:16	20
Benzene	ND		20	8.2	ug/L			09/04/13 16:16	20
Bromodichloromethane	ND		20	7.8	ug/L			09/04/13 16:16	20
Bromoform	ND		20	5.2	ug/L			09/04/13 16:16	20
Bromomethane	ND		20	14	ug/L			09/04/13 16:16	20
Carbon disulfide	ND		20	3.8	ug/L			09/04/13 16:16	20
Carbon tetrachloride	ND		20	5.4	ug/L			09/04/13 16:16	20
Chlorobenzene	ND		20	15	ug/L			09/04/13 16:16	20
Chloroethane	ND		20	6.4	ug/L			09/04/13 16:16	20
Chloroform	ND		20	6.8	ug/L			09/04/13 16:16	20
Chloromethane	ND		20	7.0	ug/L			09/04/13 16:16	20
cis-1,2-Dichloroethene	**900**		20	16	ug/L			09/04/13 16:16	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			09/04/13 16:16	20
Cyclohexane	ND		20	3.6	ug/L			09/04/13 16:16	20
Dibromochloromethane	ND		20	6.4	ug/L			09/04/13 16:16	20
Dichlorodifluoromethane	ND		20	14	ug/L			09/04/13 16:16	20
Ethylbenzene	ND		20	15	ug/L			09/04/13 16:16	20
Isopropylbenzene	ND		20	16	ug/L			09/04/13 16:16	20
Methyl acetate	ND		20	10	ug/L			09/04/13 16:16	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			09/04/13 16:16	20
Methylcyclohexane	ND		20	3.2	ug/L			09/04/13 16:16	20
Methylene Chloride	ND		20	8.8	ug/L			09/04/13 16:16	20
Styrene	ND		20	15	ug/L			09/04/13 16:16	20

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-2
Date Collected: 08/30/13 10:50
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		20	7.2	ug/L			09/04/13 16:16	20
Toluene	ND		20	10	ug/L			09/04/13 16:16	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			09/04/13 16:16	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			09/04/13 16:16	20
Trichloroethene	**59**		20	9.2	ug/L			09/04/13 16:16	20
Trichlorofluoromethane	ND		20	18	ug/L			09/04/13 16:16	20
Vinyl chloride	**110**		20	18	ug/L			09/04/13 16:16	20
Xylenes, Total	ND		40	13	ug/L			09/04/13 16:16	20

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*09/04/13 16:16*	*20*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*09/04/13 16:16*	*20*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*09/04/13 16:16*	*20*
Toluene-d8 (Surr)	*102*		*71 - 126*		*09/04/13 16:16*	*20*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**226**	**B**	0.20	0.060	mg/L		09/03/13 08:40	09/04/13 11:01	1
Antimony	ND		0.020	0.0068	mg/L		09/03/13 08:40	09/04/13 11:01	1
Arsenic	**0.094**		0.010	0.0056	mg/L		09/03/13 08:40	09/04/13 11:01	1
Barium	**2.3**		0.0020	0.00070	mg/L		09/03/13 08:40	09/04/13 11:01	1
Beryllium	**0.011**		0.0020	0.00030	mg/L		09/03/13 08:40	09/04/13 11:01	1
Cadmium	**0.0019**		0.0010	0.00050	mg/L		09/03/13 08:40	09/04/13 11:01	1
Calcium	**1450**	**B**	2.5	0.50	mg/L		09/03/13 08:40	09/04/13 13:03	5
Chromium	**0.34**		0.0040	0.0010	mg/L		09/03/13 08:40	09/04/13 11:01	1
Cobalt	**0.20**		0.0040	0.00063	mg/L		09/03/13 08:40	09/04/13 11:01	1
Copper	**0.29**		0.010	0.0016	mg/L		09/03/13 08:40	09/04/13 11:01	1
Iron	**379**		0.050	0.019	mg/L		09/03/13 08:40	09/04/13 11:01	1
Lead	**0.11**		0.0050	0.0030	mg/L		09/03/13 08:40	09/04/13 11:01	1
Magnesium	**262**		0.20	0.043	mg/L		09/03/13 08:40	09/04/13 11:01	1
Manganese	**10.5**	**B**	0.0030	0.00040	mg/L		09/03/13 08:40	09/04/13 11:01	1
Nickel	**0.44**		0.010	0.0013	mg/L		09/03/13 08:40	09/04/13 11:01	1
Potassium	**53.3**		0.50	0.10	mg/L		09/03/13 08:40	09/04/13 11:01	1
Selenium	ND		0.015	0.0087	mg/L		09/03/13 08:40	09/04/13 11:01	1
Silver	ND		0.015	0.0085	mg/L		09/03/13 08:40	09/04/13 13:03	5
Sodium	**27.5**		1.0	0.32	mg/L		09/03/13 08:40	09/04/13 11:01	1
Thallium	ND		0.020	0.010	mg/L		09/03/13 08:40	09/04/13 11:01	1
Vanadium	**0.44**		0.0050	0.0015	mg/L		09/03/13 08:40	09/04/13 11:01	1
Zinc	**0.69**		0.010	0.0015	mg/L		09/03/13 08:40	09/04/13 11:01	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.096**	**J**	0.20	0.060	mg/L		09/04/13 15:30	09/05/13 10:53	1
Antimony	ND		0.020	0.0068	mg/L		09/04/13 15:30	09/05/13 10:53	1
Arsenic	ND		0.010	0.0056	mg/L		09/04/13 15:30	09/05/13 10:53	1
Barium	**0.18**	**B**	0.0020	0.00070	mg/L		09/04/13 15:30	09/05/13 10:53	1
Beryllium	ND		0.0020	0.00030	mg/L		09/04/13 15:30	09/05/13 10:53	1
Cadmium	ND		0.0010	0.00050	mg/L		09/04/13 15:30	09/05/13 10:53	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-2
Date Collected: 08/30/13 10:50
Date Received: 08/31/13 02:00

Lab Sample ID: 480-44946-4
Matrix: Water

Method: 6010B - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	145	B	0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:53	1
Chromium	0.0030	J B	0.0040	0.0010	mg/L		09/04/13 15:30	09/05/13 10:53	1
Cobalt	0.0019	J	0.0040	0.00063	mg/L		09/04/13 15:30	09/05/13 10:53	1
Copper	0.0018	J	0.010	0.0016	mg/L		09/04/13 15:30	09/05/13 10:53	1
Iron	0.019	J	0.050	0.019	mg/L		09/04/13 15:30	09/05/13 10:53	1
Lead	ND		0.0050	0.0030	mg/L		09/04/13 15:30	09/05/13 10:53	1
Magnesium	53.5		0.20	0.043	mg/L		09/04/13 15:30	09/05/13 10:53	1
Manganese	0.63		0.0030	0.00040	mg/L		09/04/13 15:30	09/05/13 10:53	1
Nickel	0.0057	J	0.010	0.0013	mg/L		09/04/13 15:30	09/05/13 10:53	1
Potassium	5.1		0.50	0.10	mg/L		09/04/13 15:30	09/05/13 10:53	1
Selenium	ND		0.015	0.0087	mg/L		09/04/13 15:30	09/05/13 10:53	1
Silver	ND		0.0030	0.0017	mg/L		09/04/13 15:30	09/05/13 10:53	1
Sodium	22.6		1.0	0.32	mg/L		09/04/13 15:30	09/05/13 10:53	1
Thallium	ND		0.020	0.010	mg/L		09/04/13 15:30	09/05/13 10:53	1
Vanadium	ND		0.0050	0.0015	mg/L		09/04/13 15:30	09/05/13 10:53	1
Zinc	0.0044	J B	0.010	0.0015	mg/L		09/04/13 15:30	09/05/13 10:53	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/03/13 09:20	09/03/13 12:51	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/04/13 09:00	09/04/13 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	633		100	40.0	mg/L			09/03/13 16:21	10

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: SVE-1

Lab Sample ID: 480-44946-1

Date Collected: 08/30/13 12:00
Matrix: Water
Date Received: 08/31/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137033	09/03/13 21:03	NQN	TAL BUF
Total/NA	Analysis	8260B	DL	1000	137193	09/04/13 15:08	NQN	TAL BUF
Total/NA	Prep	7470A			136982	09/03/13 09:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	137089	09/03/13 12:42	JRK	TAL BUF
Total/NA	Prep	3005A			136969	09/03/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	137273	09/04/13 10:33	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	7470A			137172	09/04/13 09:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	137298	09/04/13 14:36	JRK	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	3005A			137297	09/04/13 15:30	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137467	09/05/13 10:45	AMH	TAL BUF
Total/NA	Analysis	310.2		10	137135	09/03/13 16:21	NCH	TAL BUF

Client Sample ID: SVE-2

Lab Sample ID: 480-44946-2

Date Collected: 08/30/13 11:30
Matrix: Water
Date Received: 08/31/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137033	09/03/13 21:26	NQN	TAL BUF
Total/NA	Analysis	8260B	DL	2000	137193	09/04/13 15:31	NQN	TAL BUF
Total/NA	Prep	7470A			136982	09/03/13 09:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	137089	09/03/13 12:44	JRK	TAL BUF
Total/NA	Prep	3005A			136969	09/03/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	137273	09/04/13 10:36	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	7470A			137172	09/04/13 09:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	137298	09/04/13 14:37	JRK	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	3005A			137297	09/04/13 15:30	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137467	09/05/13 10:47	AMH	TAL BUF
Total/NA	Analysis	310.2		10	137135	09/03/13 16:21	NCH	TAL BUF

Client Sample ID: MP-1

Lab Sample ID: 480-44946-3

Date Collected: 08/30/13 10:30
Matrix: Water
Date Received: 08/31/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137033	09/03/13 21:49	NQN	TAL BUF
Total/NA	Analysis	8260B	DL	100	137193	09/04/13 15:53	NQN	TAL BUF
Total/NA	Prep	7470A			136982	09/03/13 09:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	137089	09/03/13 12:49	JRK	TAL BUF
Total/NA	Prep	3005A			136969	09/03/13 08:40	NMD2	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Client Sample ID: MP-1

Lab Sample ID: 480-44946-3

Date Collected: 08/30/13 10:30
Matrix: Water
Date Received: 08/31/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	137273	09/04/13 10:58	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	7470A			137172	09/04/13 09:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	137298	09/04/13 14:39	JRK	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	3005A			137297	09/04/13 15:30	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137467	09/05/13 10:50	AMH	TAL BUF
Total/NA	Analysis	310.2		10	137135	09/03/13 16:21	NCH	TAL BUF

Client Sample ID: MP-2

Lab Sample ID: 480-44946-4

Date Collected: 08/30/13 10:50
Matrix: Water
Date Received: 08/31/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	137033	09/03/13 22:12	NQN	TAL BUF
Total/NA	Analysis	8260B	DL	20	137193	09/04/13 16:16	NQN	TAL BUF
Total/NA	Prep	7470A			136982	09/03/13 09:20	JRK	TAL BUF
Total/NA	Analysis	7470A		1	137089	09/03/13 12:51	JRK	TAL BUF
Total/NA	Prep	3005A			136969	09/03/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	137273	09/04/13 11:01	AMH	TAL BUF
Total/NA	Analysis	6010B		5	137273	09/04/13 13:03	AMH	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	7470A			137172	09/04/13 09:00	JRK	TAL BUF
Dissolved	Analysis	7470A		1	137298	09/04/13 14:41	JRK	TAL BUF
Dissolved	Filtration	FILTRATION			137087	09/03/13 15:15	NMD2	TAL BUF
Dissolved	Prep	3005A			137297	09/04/13 15:30	NMD2	TAL BUF
Dissolved	Analysis	6010B		1	137467	09/05/13 10:53	AMH	TAL BUF
Total/NA	Analysis	310.2		10	137135	09/03/13 16:21	NCH	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 - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8260B		Water	2-Nitropropane
8260B		Water	Ethyl ether
8260B		Water	n-Butanol

Method Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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 - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44946-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-44946-1	SVE-1	Water	08/30/13 12:00	08/31/13 02:00
480-44946-2	SVE-2	Water	08/30/13 11:30	08/31/13 02:00
480-44946-3	MP-1	Water	08/30/13 10:30	08/31/13 02:00
480-44946-4	MP-2	Water	08/30/13 10:50	08/31/13 02:00

Chain of Custody Record

TestAmerica

Client Information	Sampler: Scott McDonald	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-39044-10314.1
Client Contact: Mr. Eric Hausamann	Phone: 607-765-7271	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 1
Company: New York State D.E.C.				Job #:
Address: 625 Broadway 11th Floor	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12233-3256				
Phone:	PO #: Callout# 121817			
Email: ghausam@gw.dec.state.ny.us	WO #:			
Project Name: NYSDEC - Air Force Plant 51: Site#828156	Project #: 48008239			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 7470A	310.2 - Alkalinity, Total	6010B, 7470A	8260B - (MOD) TCL list OLM04.2	8270C - TCL SVOA - OLM04.2	8082 - TCL PCBs - OLM04.2	6010B - TCLP Metals ICP w/ hg	8260B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N	N	A	N	N	N	A		
SVE-1	8-30-13	1200	G	Water			X	X	X		X	X	X	X		2 YR Rush
SVE-2		1130		Water			X	X	X		X	X	X	X		
MP-1		1030		Water			X	X	X		X	X	X	X		
MP-2		~~1015~~ 1015		Water			X	X	X		X	X	X	X		
WW-1		1230	C	Water			X	X	X	X	X	X	X			Standard

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Scott McDonald	8-30-13 1500	TAL SYR		8-30-13 1700	TAL SYR
2	TAL SYR	8-30-13 1900			8-31-13 0200	TAL
3						

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		2.7 #1

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9/5/2013

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-44946-1

Login Number: 44946

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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.	False	
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	

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: 480-44144-1
Client Project/Site: NYSDEC - Air Force Plant 51: Site#828156

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, New York 12233-3256

Attn: Mr. Eric Hausamann

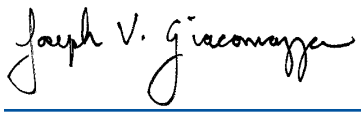
Joseph V. Giacomazza

Authorized for release by:
8/28/2013 2:43:25 PM
Joe Giacomazza, Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Project Manager II
brian.fischer@testamericainc.com

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 Administrator
8/28/2013 2:43:25 PM

Table of Contents

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
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: 480-44144-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-44144-1

Receipt
The sample was received on 8/20/2013 3:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample TCLP matrix: Waste 1 (480-44144-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Metals
Method(s) 6010B: The TCLP Extractor Blank, LB 480-135350, contained total chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample Waste 1 (480-44144-1) was not performed.

Method(s) 6010B: The TCLP Extractor Blank, LB 480-135141, contained total barium above the reporting limit (RL). The associated sample Waste 1 (480-44144-1) contained a detect for this analyte at a concentration greater than 10X the value found in the TCLP Extractor Blank; therefore, re-extraction and/or re-analysis of the sample was not performed.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Client Sample ID: Waste 1

Lab Sample ID: 480-44144-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.59	B	0.0020	0.00070	mg/L	1		6010B	TCLP
Cadmium	0.0011		0.0010	0.00050	mg/L	1		6010B	TCLP
Chromium	0.0054	B	0.0040	0.0010	mg/L	1		6010B	TCLP
Lead	0.0031	J	0.0050	0.0030	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>176		50.0	50.0	Degrees F	1		1010	Total/NA
pH	9.07		0.100	0.100	SU	1		9045C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Client Sample ID: Waste 1
Date Collected: 08/16/13 13:15
Date Received: 08/20/13 03:00

Lab Sample ID: 480-44144-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.010	0.0041	mg/L			08/22/13 16:45	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			08/22/13 16:45	10
Chlorobenzene	ND		0.010	0.0075	mg/L			08/22/13 16:45	10
Chloroform	ND		0.010	0.0034	mg/L			08/22/13 16:45	10
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			08/22/13 16:45	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			08/22/13 16:45	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			08/22/13 16:45	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			08/22/13 16:45	10
Trichloroethene	ND		0.010	0.0046	mg/L			08/22/13 16:45	10
Vinyl chloride	ND		0.010	0.0090	mg/L			08/22/13 16:45	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*66 - 137*		*08/22/13 16:45*	*10*
Toluene-d8 (Surr)	*107*		*71 - 126*		*08/22/13 16:45*	*10*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*08/22/13 16:45*	*10*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00046	mg/L		08/23/13 07:01	08/24/13 06:07	1
2,4-Dinitrotoluene	ND		0.0050	0.00045	mg/L		08/23/13 07:01	08/24/13 06:07	1
Hexachlorobenzene	ND		0.0050	0.00051	mg/L		08/23/13 07:01	08/24/13 06:07	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		08/23/13 07:01	08/24/13 06:07	1
Hexachloroethane	ND		0.0050	0.00059	mg/L		08/23/13 07:01	08/24/13 06:07	1
3-Methylphenol	ND		0.010	0.00040	mg/L		08/23/13 07:01	08/24/13 06:07	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		08/23/13 07:01	08/24/13 06:07	1
4-Methylphenol	ND		0.010	0.00036	mg/L		08/23/13 07:01	08/24/13 06:07	1
Nitrobenzene	ND		0.0050	0.00029	mg/L		08/23/13 07:01	08/24/13 06:07	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		08/23/13 07:01	08/24/13 06:07	1
Pyridine	ND		0.025	0.00041	mg/L		08/23/13 07:01	08/24/13 06:07	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		08/23/13 07:01	08/24/13 06:07	1
2,4,6-Trichlorophenol	ND		0.0050	0.00061	mg/L		08/23/13 07:01	08/24/13 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*52 - 132*	*08/23/13 07:01*	*08/24/13 06:07*	*1*
2-Fluorobiphenyl	*82*		*48 - 120*	*08/23/13 07:01*	*08/24/13 06:07*	*1*
2-Fluorophenol	*40*		*20 - 120*	*08/23/13 07:01*	*08/24/13 06:07*	*1*
Nitrobenzene-d5	*78*		*46 - 120*	*08/23/13 07:01*	*08/24/13 06:07*	*1*
p-Terphenyl-d14	*80*		*67 - 150*	*08/23/13 07:01*	*08/24/13 06:07*	*1*
Phenol-d5	*30*		*16 - 120*	*08/23/13 07:01*	*08/24/13 06:07*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		08/22/13 10:00	08/22/13 18:19	1
Barium	**0.59**	**B**	0.0020	0.00070	mg/L		08/22/13 10:00	08/22/13 18:19	1
Cadmium	**0.0011**		0.0010	0.00050	mg/L		08/22/13 10:00	08/22/13 18:19	1
Chromium	**0.0054**	**B**	0.0040	0.0010	mg/L		08/22/13 10:00	08/22/13 18:19	1
Lead	**0.0031**	**J**	0.0050	0.0030	mg/L		08/22/13 10:00	08/22/13 18:19	1
Selenium	ND		0.015	0.0087	mg/L		08/22/13 10:00	08/22/13 18:19	1
Silver	ND		0.0030	0.0017	mg/L		08/22/13 10:00	08/22/13 18:19	1

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Client Sample ID: Waste 1
Date Collected: 08/16/13 13:15
Date Received: 08/20/13 03:00

Lab Sample ID: 480-44144-1
Matrix: Solid

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/22/13 10:30	08/22/13 14:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>176		50.0	50.0	Degrees F			08/20/13 08:00	1
pH	9.07		0.100	0.100	SU			08/21/13 00:31	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
LCS 480-135368/5	Lab Control Sample	97	105	106
MB 480-135368/6	Method Blank	97	106	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-44144-1	Waste 1	102	107	105
LB 480-135172/1-A LB	Method Blank	100	107	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
LCS 480-135520/2-A	Lab Control Sample	88	88	41	89	81	32
MB 480-135520/1-A	Method Blank	90	85	46	87	80	33

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14
PHL = Phenol-d5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPH	PHL
Lab Sample ID	Client Sample ID	(52-132)	(48-120)	(20-120)	(46-120)	(67-150)	(16-120)
480-44144-1	Waste 1	85	82	40	78	80	30

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol

Surrogate Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-44144-1

Project/Site: NYSDEC - Air Force Plant 51: Site#828156

NBZ = Nitrobenzene-d5

TPH = p-Terphenyl-d14

PHL = Phenol-d5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-135368/6
Matrix: Solid
Analysis Batch: 135368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0010	0.00041	mg/L			08/22/13 14:06	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			08/22/13 14:06	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			08/22/13 14:06	1
Chloroform	ND		0.0010	0.00034	mg/L			08/22/13 14:06	1
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			08/22/13 14:06	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			08/22/13 14:06	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			08/22/13 14:06	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			08/22/13 14:06	1
Trichloroethene	ND		0.0010	0.00046	mg/L			08/22/13 14:06	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			08/22/13 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*		*08/22/13 14:06*	*1*
Toluene-d8 (Surr)	*106*		*71 - 126*		*08/22/13 14:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*08/22/13 14:06*	*1*

Lab Sample ID: LCS 480-135368/5
Matrix: Solid
Analysis Batch: 135368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0250	0.0235		mg/L		94	71 - 124		
Chlorobenzene			0.0250	0.0248		mg/L		99	72 - 120		
1,2-Dichloroethane			0.0250	0.0232		mg/L		93	75 - 127		
1,1-Dichloroethene			0.0250	0.0245		mg/L		98	58 - 121		
Tetrachloroethene			0.0250	0.0266		mg/L		106	74 - 122		
Trichloroethene			0.0250	0.0240		mg/L		96	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*66 - 137*
Toluene-d8 (Surr)	*105*		*71 - 126*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*

Lab Sample ID: LB 480-135172/1-A LB
Matrix: Solid
Analysis Batch: 135368

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		10	4.1	mg/L			08/22/13 16:02	10
Carbon tetrachloride	ND		10	2.7	mg/L			08/22/13 16:02	10
Chlorobenzene	ND		10	7.5	mg/L			08/22/13 16:02	10
Chloroform	ND		10	3.4	mg/L			08/22/13 16:02	10
1,2-Dichloroethane	ND		10	2.1	mg/L			08/22/13 16:02	10
1,1-Dichloroethene	ND		10	2.9	mg/L			08/22/13 16:02	10
2-Butanone (MEK)	ND		50	13	mg/L			08/22/13 16:02	10
Tetrachloroethene	ND		10	3.6	mg/L			08/22/13 16:02	10
Trichloroethene	ND		10	4.6	mg/L			08/22/13 16:02	10

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 480-135172/1-A LB
Matrix: Solid
Analysis Batch: 135368

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		10	9.0	mg/L			08/22/13 16:02	10

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*08/22/13 16:02*	*10*
Toluene-d8 (Surr)	*107*		*71 - 126*		*08/22/13 16:02*	*10*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*08/22/13 16:02*	*10*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-135520/1-A
Matrix: Solid
Analysis Batch: 135450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0025	0.00012	mg/L		08/23/13 07:01	08/23/13 14:03	1
2,4-Dinitrotoluene	ND		0.0013	0.00011	mg/L		08/23/13 07:01	08/23/13 14:03	1
Hexachlorobenzene	ND		0.0013	0.00013	mg/L		08/23/13 07:01	08/23/13 14:03	1
Hexachlorobutadiene	ND		0.0013	0.00017	mg/L		08/23/13 07:01	08/23/13 14:03	1
Hexachloroethane	ND		0.0013	0.00015	mg/L		08/23/13 07:01	08/23/13 14:03	1
3-Methylphenol	ND		0.0025	0.00010	mg/L		08/23/13 07:01	08/23/13 14:03	1
2-Methylphenol	ND		0.0013	0.00010	mg/L		08/23/13 07:01	08/23/13 14:03	1
4-Methylphenol	ND		0.0025	0.000090	mg/L		08/23/13 07:01	08/23/13 14:03	1
Nitrobenzene	ND		0.0013	0.000073	mg/L		08/23/13 07:01	08/23/13 14:03	1
Pentachlorophenol	ND		0.0025	0.00055	mg/L		08/23/13 07:01	08/23/13 14:03	1
Pyridine	ND		0.0063	0.00010	mg/L		08/23/13 07:01	08/23/13 14:03	1
2,4,5-Trichlorophenol	ND		0.0013	0.00012	mg/L		08/23/13 07:01	08/23/13 14:03	1
2,4,6-Trichlorophenol	ND		0.0013	0.00015	mg/L		08/23/13 07:01	08/23/13 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*52 - 132*	*08/23/13 07:01*	*08/23/13 14:03*	*1*
2-Fluorobiphenyl	*85*		*48 - 120*	*08/23/13 07:01*	*08/23/13 14:03*	*1*
2-Fluorophenol	*46*		*20 - 120*	*08/23/13 07:01*	*08/23/13 14:03*	*1*
Nitrobenzene-d5	*87*		*46 - 120*	*08/23/13 07:01*	*08/23/13 14:03*	*1*
p-Terphenyl-d14	*80*		*67 - 150*	*08/23/13 07:01*	*08/23/13 14:03*	*1*
Phenol-d5	*33*		*16 - 120*	*08/23/13 07:01*	*08/23/13 14:03*	*1*

Lab Sample ID: LCS 480-135520/2-A
Matrix: Solid
Analysis Batch: 135663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0356		mg/L		71	32 - 120
2,4-Dinitrotoluene	0.0500	0.0492		mg/L		98	65 - 154
Hexachloroethane	0.0500	0.0355		mg/L		71	14 - 101
Pentachlorophenol	0.100	0.0689		mg/L		69	39 - 136

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-135520/2-A
Matrix: Solid
Analysis Batch: 135663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135520

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*88*		*52 - 132*
2-Fluorobiphenyl	*88*		*48 - 120*
2-Fluorophenol	*41*		*20 - 120*
Nitrobenzene-d5	*89*		*46 - 120*
p-Terphenyl-d14	*81*		*67 - 150*
Phenol-d5	*32*		*16 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-135350/2-A
Matrix: Solid
Analysis Batch: 135562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		08/22/13 10:00	08/22/13 18:15	1
Barium	ND		0.0020	0.00070	mg/L		08/22/13 10:00	08/22/13 18:15	1
Cadmium	ND		0.0010	0.00050	mg/L		08/22/13 10:00	08/22/13 18:15	1
Chromium	ND		0.0040	0.0010	mg/L		08/22/13 10:00	08/22/13 18:15	1
Lead	ND		0.0050	0.0030	mg/L		08/22/13 10:00	08/22/13 18:15	1
Selenium	ND		0.015	0.0087	mg/L		08/22/13 10:00	08/22/13 18:15	1
Silver	ND		0.0030	0.0017	mg/L		08/22/13 10:00	08/22/13 18:15	1

Lab Sample ID: LCS 480-135350/3-A
Matrix: Solid
Analysis Batch: 135562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.12		mg/L		112	80 - 120
Barium	1.00	1.03		mg/L		103	80 - 120
Cadmium	1.00	1.06		mg/L		106	80 - 120
Chromium	1.00	1.03		mg/L		103	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Selenium	1.00	1.11		mg/L		111	80 - 120
Silver	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LB 480-135141/1-B LB
Matrix: Solid
Analysis Batch: 135562

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 135350

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		08/22/13 10:00	08/22/13 18:06	1
Barium	0.0352		0.0020	0.00070	mg/L		08/22/13 10:00	08/22/13 18:06	1
Cadmium	ND		0.0010	0.00050	mg/L		08/22/13 10:00	08/22/13 18:06	1
Chromium	0.00322	J	0.0040	0.0010	mg/L		08/22/13 10:00	08/22/13 18:06	1
Lead	ND		0.0050	0.0030	mg/L		08/22/13 10:00	08/22/13 18:06	1
Selenium	ND		0.015	0.0087	mg/L		08/22/13 10:00	08/22/13 18:06	1
Silver	ND		0.0030	0.0017	mg/L		08/22/13 10:00	08/22/13 18:06	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 480-44144-1 MS
Matrix: Solid
Analysis Batch: 135562

Client Sample ID: Waste 1
Prep Type: TCLP
Prep Batch: 135350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.10		mg/L		110	75 - 125
Barium	0.59	B	1.00	1.61		mg/L		102	75 - 125
Cadmium	0.0011		1.00	1.05		mg/L		105	75 - 125
Chromium	0.0054	B	1.00	0.973		mg/L		97	75 - 125
Lead	0.0031	J	1.00	1.04		mg/L		104	75 - 125
Selenium	ND		1.00	1.07		mg/L		107	75 - 125
Silver	ND		1.00	1.06		mg/L		106	75 - 125

Lab Sample ID: 480-44144-1 MSD
Matrix: Solid
Analysis Batch: 135562

Client Sample ID: Waste 1
Prep Type: TCLP
Prep Batch: 135350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.12		mg/L		112	75 - 125	2	20
Barium	0.59	B	1.00	1.62		mg/L		103	75 - 125	1	20
Cadmium	0.0011		1.00	1.06		mg/L		106	75 - 125	1	20
Chromium	0.0054	B	1.00	0.979		mg/L		97	75 - 125	1	20
Lead	0.0031	J	1.00	1.05		mg/L		105	75 - 125	1	20
Selenium	ND		1.00	1.09		mg/L		109	75 - 125	1	20
Silver	ND		1.00	1.08		mg/L		108	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-135355/2-A
Matrix: Solid
Analysis Batch: 135431

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/22/13 10:30	08/22/13 14:42	1

Lab Sample ID: LCS 480-135355/3-A
Matrix: Solid
Analysis Batch: 135431

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00668	0.00682		mg/L		102	80 - 120

Lab Sample ID: LB 480-135141/1-C LB
Matrix: Solid
Analysis Batch: 135431

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 135355

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		08/22/13 10:30	08/22/13 14:40	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-44144-1 MS
Matrix: Solid
Analysis Batch: 135431

Client Sample ID: Waste 1
Prep Type: TCLP
Prep Batch: 135355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00668	0.00705		mg/L		106	75 - 125

Lab Sample ID: 480-44144-1 MSD
Matrix: Solid
Analysis Batch: 135431

Client Sample ID: Waste 1
Prep Type: TCLP
Prep Batch: 135355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00668	0.00697		mg/L		104	75 - 125	1	20

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 480-134988/1
Matrix: Solid
Analysis Batch: 134988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Flashpoint	81.0	80.00		Degrees F		99	97.5 - 102.5

Lab Sample ID: 480-44144-1 DU
Matrix: Solid
Analysis Batch: 134988

Client Sample ID: Waste 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Flashpoint	>176		>176		Degrees F		NC	10

Method: 9045C - pH

Lab Sample ID: LCS 480-135031/1
Matrix: Solid
Analysis Batch: 135031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.960		SU		99	99 - 101

Lab Sample ID: 480-44144-1 DU
Matrix: Solid
Analysis Batch: 135031

Client Sample ID: Waste 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	9.07		9.030		SU		0.4	5

QC Association Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

GC/MS VOA

Leach Batch: 135172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	1311	
LB 480-135172/1-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 135368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	8260B	135172
LB 480-135172/1-A LB	Method Blank	TCLP	Solid	8260B	135172
LCS 480-135368/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 480-135368/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 135141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	1311	

Analysis Batch: 135450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-135520/1-A	Method Blank	Total/NA	Solid	8270C	135520

Prep Batch: 135520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	3510C	135141
LCS 480-135520/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 480-135520/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 135663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	8270C	135520
LCS 480-135520/2-A	Lab Control Sample	Total/NA	Solid	8270C	135520

Metals

Leach Batch: 135141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	1311	
480-44144-1 MS	Waste 1	TCLP	Solid	1311	
480-44144-1 MSD	Waste 1	TCLP	Solid	1311	
LB 480-135141/1-B LB	Method Blank	TCLP	Solid	1311	
LB 480-135141/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 135350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	3010A	135141
480-44144-1 MS	Waste 1	TCLP	Solid	3010A	135141
480-44144-1 MSD	Waste 1	TCLP	Solid	3010A	135141
LB 480-135141/1-B LB	Method Blank	TCLP	Solid	3010A	135141
LCS 480-135350/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 480-135350/2-A	Method Blank	Total/NA	Solid	3010A	

Metals (Continued)

Prep Batch: 135355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	7470A	135141
480-44144-1 MS	Waste 1	TCLP	Solid	7470A	135141
480-44144-1 MSD	Waste 1	TCLP	Solid	7470A	135141
LB 480-135141/1-C LB	Method Blank	TCLP	Solid	7470A	135141
LCS 480-135355/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 480-135355/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 135431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	7470A	135355
480-44144-1 MS	Waste 1	TCLP	Solid	7470A	135355
480-44144-1 MSD	Waste 1	TCLP	Solid	7470A	135355
LB 480-135141/1-C LB	Method Blank	TCLP	Solid	7470A	135355
LCS 480-135355/3-A	Lab Control Sample	Total/NA	Solid	7470A	135355
MB 480-135355/2-A	Method Blank	Total/NA	Solid	7470A	135355

Analysis Batch: 135562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	TCLP	Solid	6010B	135350
480-44144-1 MS	Waste 1	TCLP	Solid	6010B	135350
480-44144-1 MSD	Waste 1	TCLP	Solid	6010B	135350
LB 480-135141/1-B LB	Method Blank	TCLP	Solid	6010B	135350
LCS 480-135350/3-A	Lab Control Sample	Total/NA	Solid	6010B	135350
MB 480-135350/2-A	Method Blank	Total/NA	Solid	6010B	135350

General Chemistry

Analysis Batch: 134988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	Total/NA	Solid	1010	
480-44144-1 DU	Waste 1	Total/NA	Solid	1010	
LCS 480-134988/1	Lab Control Sample	Total/NA	Solid	1010	

Analysis Batch: 135031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-44144-1	Waste 1	Total/NA	Solid	9045C	
480-44144-1 DU	Waste 1	Total/NA	Solid	9045C	
LCS 480-135031/1	Lab Control Sample	Total/NA	Solid	9045C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Client Sample ID: Waste 1
Date Collected: 08/16/13 13:15
Date Received: 08/20/13 03:00

Lab Sample ID: 480-44144-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			135172	08/21/13 13:34	KEB	TAL BUF
TCLP	Analysis	8260B		10	135368	08/22/13 16:45	NQN	TAL BUF
TCLP	Leach	1311			135141	08/21/13 12:19	KEB	TAL BUF
TCLP	Prep	3510C			135520	08/23/13 07:01	MRB	TAL BUF
TCLP	Analysis	8270C		1	135663	08/24/13 06:07	ANM	TAL BUF
TCLP	Leach	1311			135141	08/21/13 12:19	KEB	TAL BUF
TCLP	Prep	7470A			135355	08/22/13 10:30	JRK	TAL BUF
TCLP	Analysis	7470A		1	135431	08/22/13 14:45	JRK	TAL BUF
TCLP	Leach	1311			135141	08/21/13 12:19	KEB	TAL BUF
TCLP	Prep	3010A			135350	08/22/13 10:00	SS1	TAL BUF
TCLP	Analysis	6010B		1	135562	08/22/13 18:19	LMH	TAL BUF
Total/NA	Analysis	1010		1	134988	08/20/13 08:00	CLT	TAL BUF
Total/NA	Analysis	9045C		1	135031	08/21/13 00:31	KS	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 - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL BUF
9045C	pH	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 - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-44144-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-44144-1	Waste 1	Solid	08/16/13 13:15	08/20/13 03:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst. NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler: Scott McMonagle	Lab PM: Brian Fisher 716-304-9839	Carrier Tracking No(s):
Client Contact: Shipping/Receiving	Phone: 607-705-7271	E-Mail: Brian.Fisher@TestAmericaInc.com	COC No:
Company: New York State DEC (Syracuse)			Page: Page 1 of 1
Address:	Due Date Requested:		Job #:
City:	TAT Requested (days): 10 BD		
State, Zip:			
Phone:	PO #: Purchase Order Requested		
Email:	Call out # ~~T2040~~ 121508		
Project Name: NYSDEC Greece Air Force plant 51	Project #: 06-02644-05-201		
Site: Greece Site #82-8156 / Contract 121508	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TCLP 8 RCRA metals	TCLP VOC's	TCLP SVOC's	pH	Ignitability	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
Waste 1	8/16/13	1315	C	S			X	X	X	X	X	4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Email To: SyracuseLabs@gesonline.com, Arudick@gesonline.com

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Scott	Date/Time: 8-19-13	Company: GES	Received by:	Date/Time: 8-19-13 0700	Company: GES
Relinquished by: Cindy Sidell	Date/Time: 8-19-13 1500	Company: GES	Received by:	Date/Time: 8-19-13 1500	Company: UPS
Relinquished by:	Date/Time: 8-19-13 19:00	Company: FAR	Received by:	Date/Time: 8.20.13 0500	Company: TAL
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.6 H1		

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8/28/2013

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-44144-1

Login Number: 44144

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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	GES
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	

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: 480-47311-1
Client Project/Site: NYSDEC - Air Force Plant 51: Site#828156

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, New York 12233-3256

Attn: Mr. Eric Hausamann

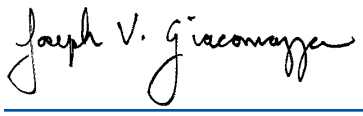
Joseph V. Giacomazza

Authorized for release by:
10/11/2013 1:03:22 PM
Joe Giacomazza, Project Administrator
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Project Manager II
(716)504-9835
brian.fischer@testamericainc.com

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 Administrator
10/11/2013 1:03:22 PM

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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
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: 480-47311-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-47311-1

Receipt
The sample was received on 10/5/2013 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

GC Semi VOA
Method(s) 8082A: The surrogate percent difference in the associated continuing calibration verifications (CCV) for Decachlorobiphenyl was decreased and slightly exceeded 15% on the ZB-35 column, indicating a low bias. (CCV 480-143608/10), (CCV 480-143608/18), (CCV 480-143608/30), (CCV 480-143608/37)

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Client Sample ID: Waste1 **Lab Sample ID: 480-47311-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Client Sample ID: Waste1
Date Collected: 10/03/13 11:30
Date Received: 10/05/13 01:30

Lab Sample ID: 480-47311-1
Matrix: Solid
Percent Solids: 93.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.23	0.045	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1221	ND		0.23	0.045	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1232	ND		0.23	0.045	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1242	ND		0.23	0.045	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1248	ND		0.23	0.045	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1254	ND		0.23	0.11	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1
PCB-1260	ND		0.23	0.11	mg/Kg	☼	10/08/13 15:23	10/09/13 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*47 - 176*	*10/08/13 15:23*	*10/09/13 15:19*	*1*
Tetrachloro-m-xylene	*110*		*46 - 175*	*10/08/13 15:23*	*10/09/13 15:19*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX2								
Lab Sample ID	Client Sample ID	(47-176)	(46-175)								
480-47311-1	Waste1	95	110								
LCS 480-143536/2-A	Lab Control Sample	104	120								
MB 480-143536/1-A	Method Blank	92	108								

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-143536/1-A
Matrix: Solid
Analysis Batch: 143608

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.22	0.042	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1221	ND		0.22	0.042	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1232	ND		0.22	0.042	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1242	ND		0.22	0.042	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1248	ND		0.22	0.042	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1254	ND		0.22	0.10	mg/Kg		10/08/13 15:23	10/09/13 10:05	1
PCB-1260	ND		0.22	0.10	mg/Kg		10/08/13 15:23	10/09/13 10:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*47 - 176*	*10/08/13 15:23*	*10/09/13 10:05*	*1*
Tetrachloro-m-xylene	*108*		*46 - 175*	*10/08/13 15:23*	*10/09/13 10:05*	*1*

Lab Sample ID: LCS 480-143536/2-A
Matrix: Solid
Analysis Batch: 143608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143536

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.71	2.00		mg/Kg		117	51 - 185		
PCB-1260			1.71	1.91		mg/Kg		112	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*47 - 176*
Tetrachloro-m-xylene	*120*		*46 - 175*

QC Association Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

GC Semi VOA

Prep Batch: 143536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47311-1	Waste1	Total/NA	Solid	3550C	
LCS 480-143536/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-143536/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 143608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47311-1	Waste1	Total/NA	Solid	8082A	143536
LCS 480-143536/2-A	Lab Control Sample	Total/NA	Solid	8082A	143536
MB 480-143536/1-A	Method Blank	Total/NA	Solid	8082A	143536

General Chemistry

Analysis Batch: 143026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47311-1	Waste1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Client Sample ID: Waste1
Date Collected: 10/03/13 11:30
Date Received: 10/05/13 01:30

Lab Sample ID: 480-47311-1
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			143536	10/08/13 15:23	TRG	TAL BUF
Total/NA	Analysis	8082A		1	143608	10/09/13 15:19	JMM	TAL BUF
Total/NA	Analysis	Moisture		1	143026	10/05/13 15:12	GTG	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.
TestAmerica Job ID: 480-47311-1
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13 *
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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 - Air Force Plant 51: Site#828156

TestAmerica Job ID: 480-47311-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47311-1	Waste1	Solid	10/03/13 11:30	10/05/13 01:30

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

Client Information (Sub Contract Lab)	Sampler: Scott McDonald	Lab PM: ~~Hoffman, Sally~~ Brian Fisher	Carrier Tracking No(s):	COC No:
Client Contact: Mr. Eric Hausaman	Phone: 607-765-7271	E-Mail: ~~sally.hoffman~~@testamericainc.com		Page: Page 1 of 1
Company: New York State DEC (Syracuse)		Brianfisher		Job #:

Address: 625 Broadway , 12th floor	Due Date Requested:	
City: Albany	TAT Requested (days): 10 BD	
State, Zip: NY, 12233		
Phone: (518) 402-9814	PO #: Purchase Order Requested	
Email: Eric Hausamann <eghausam@gw.dec.state.ny.us>	Call out # 121817	
Project Name: NYSDEC Greece Dewey ave. AFB	Project #: 48008239	
Site: NYSDEC Air Force Plant 51: Site#828156	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PCB Analysis Via EPA method 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Waste1	10/3/13	1130	C	S			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: Email To: SMcDonald@gesonline.com, CGoldenWalts@gesonline.com, SyracuseLabs@gesonline.com, & ges@equisonline.com

SPECIFIC EDD NAME: DEC15-labnumber.24076.EQEDD.zip

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Scott McDonald	Date/Time: 10-3-13 1200	Company GES	Received by: GES Sample Fridge	Date/Time: 10-3-13 1200	Company GES
Relinquished by:	Date/Time: 10-4-13 1100	Company GES	Received by:	Date/Time: 10-4-13 1100	Company
Relinquished by:	Date/Time: 10-4-13 1900	Company	Received by:	Date/Time: 10.5.13 0130	Company TAL

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6 #1

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-47311-1

Login Number: 47311

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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	N/A	
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	GES
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-44988-1

Job Description: NYSDEC - Air Force Plant 51: Site#828156

For:
New York State D.E.C.
625 Broadway
11th Floor
Albany, NY 12233-3256

Attention: Mr. Eric Hausamann

Joseph V. Giacomazza

Approved for release.
Joe V Giacomazza
Project Administrator
9/18/2013 12:33 PM

Designee for
Brian J Fischer, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9835
brian.fischer@testamericainc.com
09/18/2013

cc: Mike Musso

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 480-44988-1

Job Description: NYSDEC - Air Force Plant 51: Site#828156

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.

Joseph V. Giacomazza

Approved for release.
Joe V Giacomazza
Project Administrator
9/18/2013 12:33 PM

Designee for
Brian J Fischer

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Job Narrative
480-44988-1

Receipt
The sample was received on 8/31/2013 2:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA
Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: WW-1 (480-44988-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 138296: Bromomethane adn trans-1,4-Dichloro-2-butene. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for six analytes to be outside limits; therefore, the data have been reported. (CCVIS 480-138296/3)

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C: The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 137773: 2,4,5-Trichlorophenol and N-Nitrosodi-n-propylamine. These compounds are not classified as Calibration Check Compounds (CCCs) in the reference method, and the laboratory defaults to in-house and/or project-specific criteria for evaluation. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for 4 analytes to be outside limits; therefore, the data have been reported.

Method(s) 8270C: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for batch 137509 recovered outside control limits for the following analytes: 3-Nitroaniline and 4-Chloroaniline. 3-Nitroaniline and 4-Chloroaniline have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: The method blank for batch 137509 contained Acetophenone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

GC Semi VOA
Method(s) 8082: All primary data is reported from the ZB-5 column.

Method(s) 8082: The percent difference in a multi-component continuing calibration verification is assessed on the basis of the total amount, individual peak calculations are only listed for completeness.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The Method Blank for batch 480-137161 contained total calcium and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of sample WW-1 (480-44988-1) was not performed.

Method(s) 6010B: The recovery of Post Spike, (480-44988-1 PDS), in batch 480-137030 exhibited results outside the quality control limits for TCLP silver. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

No other analytical or quality issues were noted.

General Chemistry
Method(s) 9040B: The following sample(s) was analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample expired: WW-1 (480-44988-1).

No other analytical or quality issues were noted.

Organic Prep
Method(s) 3510C: A significant amount of sediment was present in the following sample:WW-1 (480-44988-1). This sample was decanted prior to preparation .

No other analytical or quality issues were noted.

SAMPLE SUMMARY

Client: New York State D.E.C. Job Number: 480-44988-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-44988-1	WW-1	Water	08/30/2013 1230	08/31/2013 0200

EXECUTIVE SUMMARY - Detections

Client: New York State D.E.C. Job Number: 480-44988-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-44988-1	**WW-1**					
1,1-Dichloroethene		3.2	J	10	ug/L	8260B
cis-1,2-Dichloroethene		3100		50	ug/L	8260B
Trichloroethene		3700		50	ug/L	8260B
Vinyl chloride		520		10	ug/L	8260B
Acetophenone		0.66	J B	4.8	ug/L	8270C
Benzaldehyde		0.28	J	4.8	ug/L	8270C
Bis(2-ethylhexyl) phthalate		3.4	J	4.8	ug/L	8270C
Di-n-butyl phthalate		0.35	J	4.8	ug/L	8270C
Phenol		3.0	J	4.8	ug/L	8270C
Aluminum		115		0.20	mg/L	6010B
Arsenic		0.052		0.010	mg/L	6010B
Barium		1.1		0.0020	mg/L	6010B
Beryllium		0.0057		0.0020	mg/L	6010B
Calcium		678	B	0.50	mg/L	6010B
Chromium		0.23		0.0040	mg/L	6010B
Cobalt		0.095		0.0040	mg/L	6010B
Copper		0.19		0.010	mg/L	6010B
Iron		212		0.050	mg/L	6010B
Lead		0.15		0.0050	mg/L	6010B
Magnesium		182		0.20	mg/L	6010B
Manganese		6.0		0.0030	mg/L	6010B
Nickel		0.23		0.010	mg/L	6010B
Potassium		30.4		0.50	mg/L	6010B
Selenium		0.0092	J	0.015	mg/L	6010B
Sodium		45.5		1.0	mg/L	6010B
Vanadium		0.25		0.0050	mg/L	6010B
Zinc		0.63	B	0.010	mg/L	6010B
Mercury		0.0013		0.00020	mg/L	7470A
Alkalinity, Total		95.3		10.0	mg/L	310.2
pH		7.96	H	0.100	SU	9040B
TCLP						
Barium		0.15		0.0020	mg/L	6010B
Chromium		0.0024	J	0.0040	mg/L	6010B

METHOD SUMMARY

Client: New York State D.E.C. Job Number: 480-44988-1

Description	Lab Location	Method	Preparation Method
Matrix:			
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL BUF	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Metals (ICP)	TAL BUF	SW846 6010B	
Preparation, Total Metals	TAL BUF		SW846 3005A
Metals (ICP)	TAL BUF	SW846 6010B	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Total Metals	TAL BUF		SW846 3010A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A
Mercury (CVAA)	TAL BUF	SW846 7470A	
TCLP Extraction	TAL BUF		SW846 1311
Preparation, Mercury	TAL BUF		SW846 7470A
Alkalinity	TAL BUF	MCAWW 310.2	
pH	TAL BUF	SW846 9040B	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: New York State D.E.C. Job Number: 480-44988-1

Method	Analyst	Analyst ID
SW846 8260B	Cwiklinski, Charles D	CDC
SW846 8260B	Quirk, Patrick J	PJQ
SW846 8270C	Rimmer, Aaron	AR1
SW846 8082	Michalek, Jason M	JMM
SW846 6010B	Hawrysiak, Allison M	AMH
SW846 7470A	Kacalski, Jason R	JRK
MCAWW 310.2	Bubb, Richard M	RMB
SW846 9040B	Sobol, Kevin	KS

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138153	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1459.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	09/10/2013 2009			Final Weight/Volume:	5 mL
Prep Date:	09/10/2013 2009				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		8.2	10
1,1,2,2-Tetrachloroethane	ND		2.1	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	10
1,1,2-Trichloroethane	ND		2.3	10
1,1-Dichloroethane	ND		3.8	10
1,1-Dichloroethene	3.2	J	2.9	10
1,2,4-Trichlorobenzene	ND		4.1	10
1,2-Dibromo-3-Chloropropane	ND		3.9	10
1,2-Dibromoethane	ND		7.3	10
1,2-Dichlorobenzene	ND		7.9	10
1,2-Dichloroethane	ND		2.1	10
1,2-Dichloropropane	ND		7.2	10
1,3-Dichlorobenzene	ND		7.8	10
1,4-Dichlorobenzene	ND		8.4	10
2-Butanone (MEK)	ND		13	100
2-Hexanone	ND		12	50
4-Methyl-2-pentanone (MIBK)	ND		21	50
Acetone	ND		30	100
Benzene	ND		4.1	10
Bromodichloromethane	ND		3.9	10
Bromoform	ND		2.6	10
Bromomethane	ND		6.9	10
Carbon disulfide	ND		1.9	10
Carbon tetrachloride	ND		2.7	10
Chlorobenzene	ND		7.5	10
Chloroethane	ND		3.2	10
Chloroform	ND		3.4	10
Chloromethane	ND		3.5	10
cis-1,2-Dichloroethene	2900	E	8.1	10
cis-1,3-Dichloropropene	ND		3.6	10
Cyclohexane	ND		1.8	10
Dibromochloromethane	ND		3.2	10
Dichlorodifluoromethane	ND		6.8	10
Ethylbenzene	ND		7.4	10
Isopropylbenzene	ND		7.9	10
Methyl acetate	ND		5.0	10
Methyl tert-butyl ether	ND		1.6	10
Methylcyclohexane	ND		1.6	10
Methylene Chloride	ND		4.4	10
Styrene	ND		7.3	10
Tetrachloroethene	ND		3.6	10
Toluene	ND		5.1	10
trans-1,2-Dichloroethene	ND		9.0	10
trans-1,3-Dichloropropene	ND		3.7	10
Trichloroethene	3300	E	4.6	10
Trichlorofluoromethane	ND		8.8	10

Client: New York State D.E.C.

Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1
Client Matrix: Water

Date Sampled: 08/30/2013 1230
Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138153	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1459.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	09/10/2013 2009			Final Weight/Volume:	5 mL
Prep Date:	09/10/2013 2009				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	520		9.0	10
Xylenes, Total	ND		6.6	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	96		71 - 126

Client: New York State D.E.C. .

Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1
Client Matrix: Water

Date Sampled: 08/30/2013 1230
Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138153	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1459.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	09/10/2013 2009			Final Weight/Volume:	5 mL
Prep Date:	09/10/2013 2009				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138296	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1470.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2013 0152	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	09/11/2013 0152				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		41	50
1,1,2,2-Tetrachloroethane	ND		11	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16	50
1,1,2-Trichloroethane	ND		12	50
1,1-Dichloroethane	ND		19	50
1,1-Dichloroethene	ND		15	50
1,2,4-Trichlorobenzene	ND		21	50
1,2-Dibromo-3-Chloropropane	ND		20	50
1,2-Dibromoethane	ND		37	50
1,2-Dichlorobenzene	ND		40	50
1,2-Dichloroethane	ND		11	50
1,2-Dichloropropane	ND		36	50
1,3-Dichlorobenzene	ND		39	50
1,4-Dichlorobenzene	ND		42	50
2-Butanone (MEK)	ND		66	500
2-Hexanone	ND		62	250
4-Methyl-2-pentanone (MIBK)	ND		110	250
Acetone	ND		150	500
Benzene	ND		21	50
Bromodichloromethane	ND		20	50
Bromoform	ND		13	50
Bromomethane	ND		35	50
Carbon disulfide	ND		9.5	50
Carbon tetrachloride	ND		14	50
Chlorobenzene	ND		38	50
Chloroethane	ND		16	50
Chloroform	ND		17	50
Chloromethane	ND		18	50
cis-1,2-Dichloroethene	3100		41	50
cis-1,3-Dichloropropene	ND		18	50
Cyclohexane	ND		9.0	50
Dibromochloromethane	ND		16	50
Dichlorodifluoromethane	ND		34	50
Ethylbenzene	ND		37	50
Isopropylbenzene	ND		40	50
Methyl acetate	ND		25	50
Methyl tert-butyl ether	ND		8.0	50
Methylcyclohexane	ND		8.0	50
Methylene Chloride	ND		22	50
Styrene	ND		37	50
Tetrachloroethene	ND		18	50
Toluene	ND		26	50
trans-1,2-Dichloroethene	ND		45	50
trans-1,3-Dichloropropene	ND		19	50
Trichloroethene	3700		23	50
Trichlorofluoromethane	ND		44	50

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138296	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1470.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2013 0152	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	09/11/2013 0152				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	570		45	50
Xylenes, Total	ND		33	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
4-Bromofluorobenzene (Surr)	87		73 - 120
Toluene-d8 (Surr)	95		71 - 126

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138296	Instrument ID:	HP5973P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1470.D
Dilution:	50			Initial Weight/Volume:	5 mL
Analysis Date:	09/11/2013 0152	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	09/11/2013 0152				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/L)	Qualifier
	Tentatively Identified Compound		None	

Client: New York State D.E.C.

Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1
Client Matrix: Water

Date Sampled: 08/30/2013 1230
Date Received: 08/31/2013 0200

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-137773	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-137509	Lab File ID:	W003846.D
Dilution:	1.0			Initial Weight/Volume:	263 mL
Analysis Date:	09/07/2013 0328			Final Weight/Volume:	1 mL
Prep Date:	09/05/2013 1450			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Biphenyl	ND		0.62	4.8
bis (2-chloroisopropyl) ether	ND		0.49	4.8
2,4,5-Trichlorophenol	ND		0.46	4.8
2,4,6-Trichlorophenol	ND		0.58	4.8
2,4-Dichlorophenol	ND		0.48	4.8
2,4-Dimethylphenol	ND		0.48	4.8
2,4-Dinitrophenol	ND		2.1	9.5
2,4-Dinitrotoluene	ND		0.42	4.8
2,6-Dinitrotoluene	ND		0.38	4.8
2-Chloronaphthalene	ND		0.44	4.8
2-Chlorophenol	ND		0.50	4.8
2-Methylnaphthalene	ND		0.57	4.8
2-Methylphenol	ND		0.38	4.8
2-Nitroaniline	ND		0.40	9.5
2-Nitrophenol	ND		0.46	4.8
3,3'-Dichlorobenzidine	ND		0.38	4.8
3-Nitroaniline	ND	*	0.46	9.5
4,6-Dinitro-2-methylphenol	ND		2.1	9.5
4-Bromophenyl phenyl ether	ND		0.43	4.8
4-Chloro-3-methylphenol	ND		0.43	4.8
4-Chloroaniline	ND	*	0.56	4.8
4-Chlorophenyl phenyl ether	ND		0.33	4.8
4-Methylphenol	ND		0.34	9.5
4-Nitroaniline	ND		0.24	9.5
4-Nitrophenol	ND		1.4	9.5
Acenaphthene	ND		0.39	4.8
Acenaphthylene	ND		0.36	4.8
Acetophenone	0.66	J B	0.51	4.8
Anthracene	ND		0.27	4.8
Atrazine	ND		0.44	4.8
Benzaldehyde	0.28	J	0.25	4.8
Benzo(a)anthracene	ND		0.34	4.8
Benzo(a)pyrene	ND		0.45	4.8
Benzo(b)fluoranthene	ND		0.32	4.8
Benzo(g,h,i)perylene	ND		0.33	4.8
Benzo(k)fluoranthene	ND		0.69	4.8
Bis(2-chloroethoxy)methane	ND		0.33	4.8
Bis(2-chloroethyl)ether	ND		0.38	4.8
Bis(2-ethylhexyl) phthalate	3.4	J	1.7	4.8
Butyl benzyl phthalate	ND		0.40	4.8
Caprolactam	ND		2.1	4.8
Carbazole	ND		0.29	4.8
Chrysene	ND		0.31	4.8
Di-n-butyl phthalate	0.35	J	0.29	4.8
Di-n-octyl phthalate	ND		0.45	4.8
Dibenz(a,h)anthracene	ND		0.40	4.8

Client: New York State D.E.C.

Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1
Client Matrix: Water

Date Sampled: 08/30/2013 1230
Date Received: 08/31/2013 0200

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-137773	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-137509	Lab File ID:	W003846.D
Dilution:	1.0			Initial Weight/Volume:	263 mL
Analysis Date:	09/07/2013 0328			Final Weight/Volume:	1 mL
Prep Date:	09/05/2013 1450			Injection Volume:	5 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Dibenzofuran	ND		0.48	9.5
Diethyl phthalate	ND		0.21	4.8
Dimethyl phthalate	ND		0.34	4.8
Fluoranthene	ND		0.38	4.8
Fluorene	ND		0.34	4.8
Hexachlorobenzene	ND		0.48	4.8
Hexachlorobutadiene	ND		0.65	4.8
Hexachlorocyclopentadiene	ND		0.56	4.8
Hexachloroethane	ND		0.56	4.8
Indeno(1,2,3-cd)pyrene	ND		0.45	4.8
Isophorone	ND		0.41	4.8
N-Nitrosodi-n-propylamine	ND		0.51	4.8
N-Nitrosodiphenylamine	ND		0.48	4.8
Naphthalene	ND		0.72	4.8
Nitrobenzene	ND		0.28	4.8
Pentachlorophenol	ND		2.1	9.5
Phenanthrene	ND		0.42	4.8
Phenol	3.0	J	0.37	4.8
Pyrene	ND		0.32	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
2,4,6-Tribromophenol	112		39 - 146
2-Fluorobiphenyl	95		37 - 120
2-Fluorophenol	69		18 - 120
Nitrobenzene-d5	98		34 - 132
p-Terphenyl-d14	108		58 - 147
Phenol-d5	52		11 - 120

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	480-137382	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-137370	Initial Weight/Volume:	262 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	09/05/2013 2342			Injection Volume:	1 uL
Prep Date:	09/05/2013 0557			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.17	0.48
PCB-1221	ND		0.17	0.48
PCB-1232	ND		0.17	0.48
PCB-1242	ND		0.17	0.48
PCB-1248	ND		0.17	0.48
PCB-1254	ND		0.24	0.48
PCB-1260	ND		0.24	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	70		19 - 126
Tetrachloro-m-xylene	71		23 - 127

Client: New York State D.E.C. Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-137611	Instrument ID:	ICAP2
Prep Method:	3005A	Prep Batch:	480-137161	Lab File ID:	I2090513A-12.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/05/2013 2153			Final Weight/Volume:	50 mL
Prep Date:	09/04/2013 0815				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Aluminum	115		0.060	0.20
Antimony	ND		0.0068	0.020
Arsenic	0.052		0.0056	0.010
Barium	1.1		0.00070	0.0020
Beryllium	0.0057		0.00030	0.0020
Cadmium	ND		0.00050	0.0010
Calcium	678	B	0.10	0.50
Chromium	0.23		0.0010	0.0040
Cobalt	0.095		0.00063	0.0040
Copper	0.19		0.0016	0.010
Iron	212		0.019	0.050
Lead	0.15		0.0030	0.0050
Magnesium	182		0.043	0.20
Manganese	6.0		0.00040	0.0030
Nickel	0.23		0.0013	0.010
Potassium	30.4		0.10	0.50
Selenium	0.0092	J	0.0087	0.015
Silver	ND		0.0017	0.0030
Sodium	45.5		0.32	1.0
Thallium	ND		0.010	0.020
Vanadium	0.25		0.0015	0.0050
Zinc	0.63	B	0.0015	0.010

6010B Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	480-137422	Instrument ID:	ICAP1
Prep Method:	3010A	Prep Batch:	480-137030	Lab File ID:	I1090413B-9.asc
Dilution:	1.0	Leach Batch:	480-136976	Initial Weight/Volume:	50 mL
Analysis Date:	09/04/2013 2218			Final Weight/Volume:	50 mL
Prep Date:	09/03/2013 1210				
Leach Date:	09/03/2013 1045				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	ND		0.0056	0.010
Barium	0.15		0.00070	0.0020
Cadmium	ND		0.00050	0.0010
Chromium	0.0024	J	0.0010	0.0040
Lead	ND		0.0030	0.0050
Selenium	ND		0.0087	0.015
Silver	ND		0.0017	0.0030

7470A Mercury (CVAA)

Client: New York State D.E.C.

Job Number: 480-44988-1

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1
Client Matrix: Water

Date Sampled: 08/30/2013 1230
Date Received: 08/31/2013 0200

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-137271	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-137165	Lab File ID:	H09043W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/04/2013 1222			Final Weight/Volume:	50 mL
Prep Date:	09/04/2013 0750				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.0013		0.00012	0.00020

7470A Mercury (CVAA)-TCLP

Analysis Method:	7470A	Analysis Batch:	480-137757	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-137706	Lab File ID:	H09063TC.PRN
Dilution:	1.0	Leach Batch:	480-136976	Initial Weight/Volume:	30 mL
Analysis Date:	09/06/2013 1425			Final Weight/Volume:	50 mL
Prep Date:	09/06/2013 1122				
Leach Date:	09/03/2013 1045				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

General Chemistry

Client Sample ID: **WW-1**

Lab Sample ID: 480-44988-1 Date Sampled: 08/30/2013 1230
Client Matrix: Water Date Received: 08/31/2013 0200

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Alkalinity, Total	95.3		mg/L	4.0	10.0	1.0	310.2

Analysis Batch: 480-138322 Analysis Date: 09/11/2013 0245

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH	7.96	H	SU	0.100	0.100	1.0	9040B

Analysis Batch: 480-137140 Analysis Date: 09/03/2013 2126

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-44988-1	WW-1	104	96	87
480-44988-1 DL	WW-1 DL	105	95	87
MB 480-138153/5		98	96	89
MB 480-138296/6		102	97	89
LCS 480-138153/4		97	95	92
LCS 480-138296/5		101	97	93

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica

Client Information

Client Contact: Mr. Eric Hausamann
Company: New York State D.E.C.
Address: 625 Broadway 11th Floor
City: Albany
State, Zip: NY, 12233-3256
Phone:
Email: ghausam@gw.dec.state.ny.us
Project Name: NYSDEC - Air Force Plant 51: Site#828156
Site:

Sampler: Scott McDonald
Phone: 607-765-7271

Lab PM: Fischer, Brian J
E-Mail: brian.fischer@testamericainc.com

Carrier Tracking No(s):

COC No: 480-39044-10314.1
Page: Page 1 of 1
Job #:

Due Date Requested:
TAT Requested (days):
PO #: Callout# 121817
WO #:
Project #: 48008239
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 7470A	310.2 - Alkalinity, Total	6010B, 7470A	8260B - (MOD) TCL list OLM04.2	8270C - TCL SVOA - OLM04.2	8082 - TCL PCBs - OLM04.2	6010B - TCLP Metals ICP w/ hg	8260 ORTCL	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	N	N	A	N	N	N	A		
SVE-1	8-30-13	1200	G	Water			X	X	X		X	X	X	X		2YR Rush
SVE-2		1130		Water			X	X	X		X	X	X	X		
MP-1		1030		Water			X	X	X		X	X	X	X		
MP-2		~~1030~~ 1035	V	Water			X	X	X		X	X	X	X		
WW-1		1230	C	Water			X	X	X	X	X	X	X			Standard

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Scott McD	8-30-13 1500			8-30-13 1500	
2		8-30-13 1920			8-31-13 0200	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.7+1

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-44988-1

Login Number: 44988
List Number: 1
Creator: Kinecki, Kenneth P

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.	False	
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	

APPENDIX III

Waste Manifests

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

56413

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	TIME OUT
TA-402 RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	11-26-13		
TRUCK # RT23	TRAILER #		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 PHONE # (315) 433-5115	NYS DeC 625 Broadway, 12 floor Albany NY 12233

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1	Non RcRa Non D.O.T Regulated Material Soil [PCS] approval # 4512	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE See Mefford on Behalf of the NYSDec PRINT NAME Scott McDonald

DRIVER SIGNATURE [signature] PRINT NAME Michael J Carney

SPECIAL INSTRUCTIONS: Source 4777 Dewy Ave. Rochester, NY 14612

DESTINATION: Ontario County Land fill 1879 RT 5 and 20
Stanly, NY 14561

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

2114173

NEWS ME / ONTARIO COUNTY LANDFILL
A Division of Casella Waste Systems
1879 NYS Route 5&20
Stanley, NY 14561

TICKET: 554384
DATE: 11/26/2012
TIME: 12:39 - 13:21

CUSTOMER: LE00163 / RICCELLI
HAULCUST: WO: 0 APPROVAL #: P.O.#:
ORIGIN: ME / MONROE
TRUCK: RT23 TRAILER:
GENERATOR: NYS DEC / NYSDEC PROFILE #: 4512
HAULER: RIC / RICCELLI ROUTE: NA / NON APPLICABLE
COMMENT: 4512/56413

GROSS: 55420 LBS
TARE: 36040 LBS
NET: 19380 LBS
CELL/TANK: PB

MATERIAL	QUANTITY	UNIT
IN / INDUSTRIAL WASTE	9.6900	ST

I Certify under penalty of perjury that I am familiar with wastes authorized at this facility and that to the best of my knowledge all waste contained in this load is authorized for disposal at this facility.

Weighmaster: Driver:

IN: NANCY B: PCSCALE1-0 OUT: NANCY B: PCSCALE1-0