

Restoration & Conservation Advisement Group, LLC.

Phase 2: Pollution Fingerprinting & Soils Characterization Report

1106 Broadway, Astoria NY 11106



Street View of 1106 Broadway

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Environmental Introduction

This report presents the findings of a Phase 2 Environmental Site Assessment of 1106 Broadway, Astoria, NY 11106 Block 316 – Lot 13 (Figure 1). This report was prepared by Dr. James M. Cervino, QEP, owner of Restoration and Conservation Advisement Group, LLC., with assistance by Dr. Briana Salas for Damien Smith. From here on, the site 1106 Broadway, Astoria NY 11106, will be referred to as the target property. This phase 2 soils investigation & characterization report includes limited horizontal and vertical delineation from soil test pit locations from 1106 Broadway, Astoria, NY 11106. Sample testing included soils, soil vapor, and water. This property location will likely be investigated and remediated under the oversight of NYCOER or the New York State Department of Environmental Conservation (NYSDEC) **(Figure 1)**.



Figure 1: Target property. The map above shows an aerial view of the target property, provided by Google Maps. The target property is highlighted in red. The property consists of a one-story building, a parking garage, and a paved lot. The property is classified as Commercial (Zoning: G1).

Site History

As indicated in our Phase I analysis, the target property has been built on since at least 1930, with building records indicating the current building on the target property being

built in 1930. Certified Sanborn maps and historical directory information indicate a variety of businesses have occupied the target property including American Prometal Corporation (1936), an auto repair facility (1967), Nelson Galvanizing Inc. (1977), and an auto repair shop (1993-Current). Investigation of environmental assessments of the adjacent property (known as 11-02 Broadway OR 11-01 33rd Ave) show that the target property was previously part of the site of the old Nelson Foundry (also known as Nelson Galvanizing Inc., see above) which also included property at 11-02 Broadway.

The target property is NOT listed on any environmental databases. However, a subsurface investigation of the target property was performed by P.W. Grosser Consulting, Inc. in 2009 (**Appendix 1**). The goal of the investigation was to characterize soil and groundwater contamination at the target property. Significant results of that investigation are as follows:

The survey found no evidence of the presence of an underground storage tank (UST) as per PW Grosser Subsurface Investigation Report

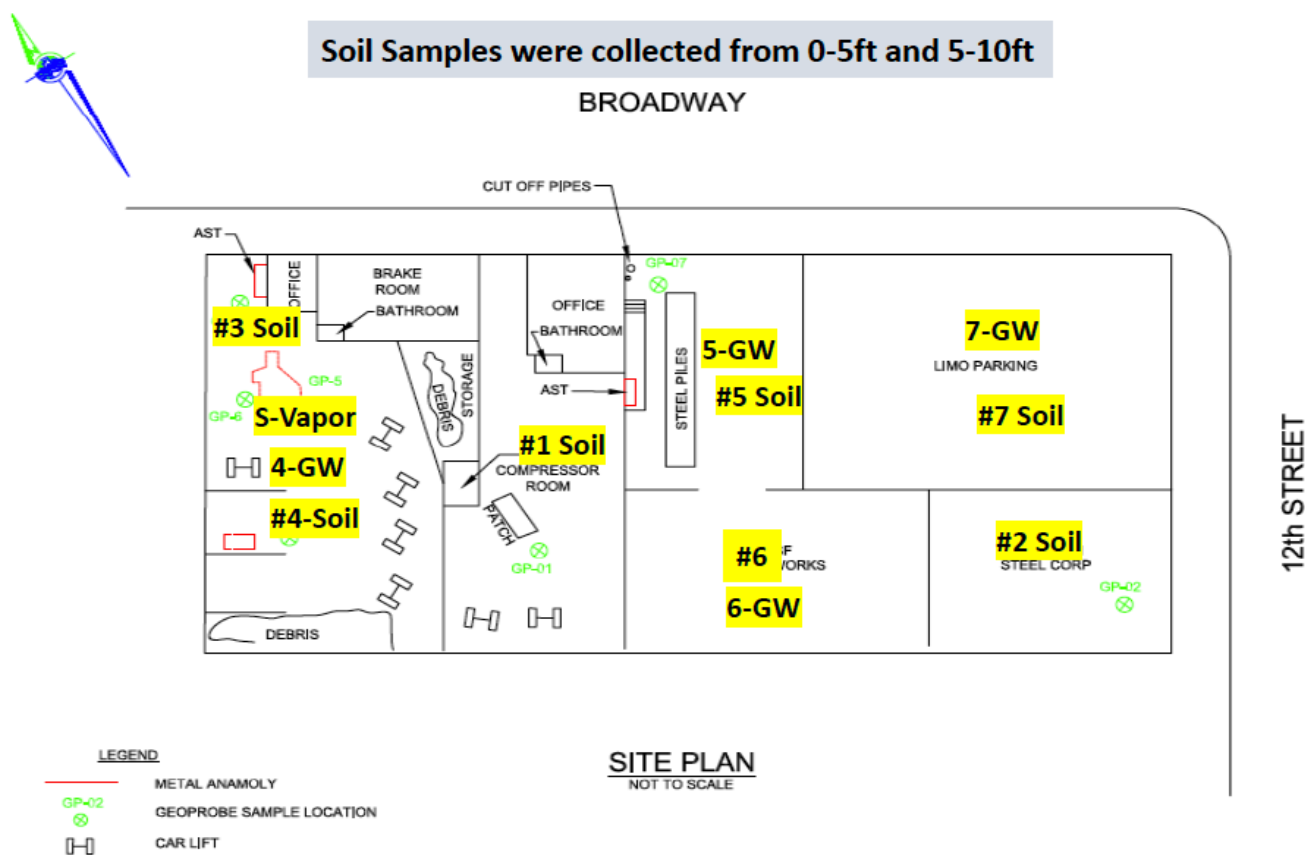
Note: February 17, 2009; PW Grosser Geophysical Investigation Report
PWGC contracted Naeva Geophysics (Naeva) to perform a geophysical survey of the property to determine the absence/presence and locations of undocumented USTs. The geophysical survey was performed on January 23, 2009 and overseen by a PWGC representative. Naeva technicians utilized a Fisher M-Scope metal detection instrument, a Subsite 950 utility locator, a Dynatel 2273 cable locator, and a Sensors & Software Smart Cart ground penetrating radar (GPR) to perform the site survey. Based upon results of the geophysical survey, several metallic anomalies were identified. However, the GPR survey determined that these anomalies were not indicative of USTs.

Summary & Approach

For the purposes of conducting an in-depth Pollution Fingerprinting Investigation and targeting/comparing the PW Grosser 2009 report associated with said property to current real time updated analysis of all hotspots located at the site and re-plotted them onto the PW Grosser 2009 MAP (**Figure 2**). We also conducted groundwater and soil vapor investigation analysis close the identified areas of concern that should previous contamination.

(Figure 2)

Figure 2: Sampling Scheme for Target Property. The figure above shows an aerial view of the target property and details how sampling was performed.



Analytical results (Appendices 2-4) report concentrations of semi-volatile organic compounds (SVOCs) and metals in a few of the soil samples at concentrations exceeding the New York State Department of Environmental Conservation 6NYCRR Subpart 375 (NYSDEC). Volatile organic compounds (VOCs) were detected at concentrations exceeding the NYSDEC Groundwater Standards in two of the groundwater samples analyzed likely from an offsite source. No VOCs, pesticides, or PCBs were detected in the soil samples collected at concentrations exceeding the NYSDEC RSCOs. SVOCs were detected in soil samples collected from each boring. SVOC concentrations exceeded the RSCOs in four of the six samples analyzed. Metals, including zinc, mercury and magnesium were detected in the three samples analyzed at concentrations exceeding the RSCOs. Several VOCs were detected at concentrations slightly exceeding the 6-NYCRR-

NYSDEC Standards in the groundwater samples reported. Overall findings indicated that the source of VOC contamination detected in the groundwater and soil beneath the target property is a result of an off-site source to the southeast of the subject property.

Site Sampling and Methodology

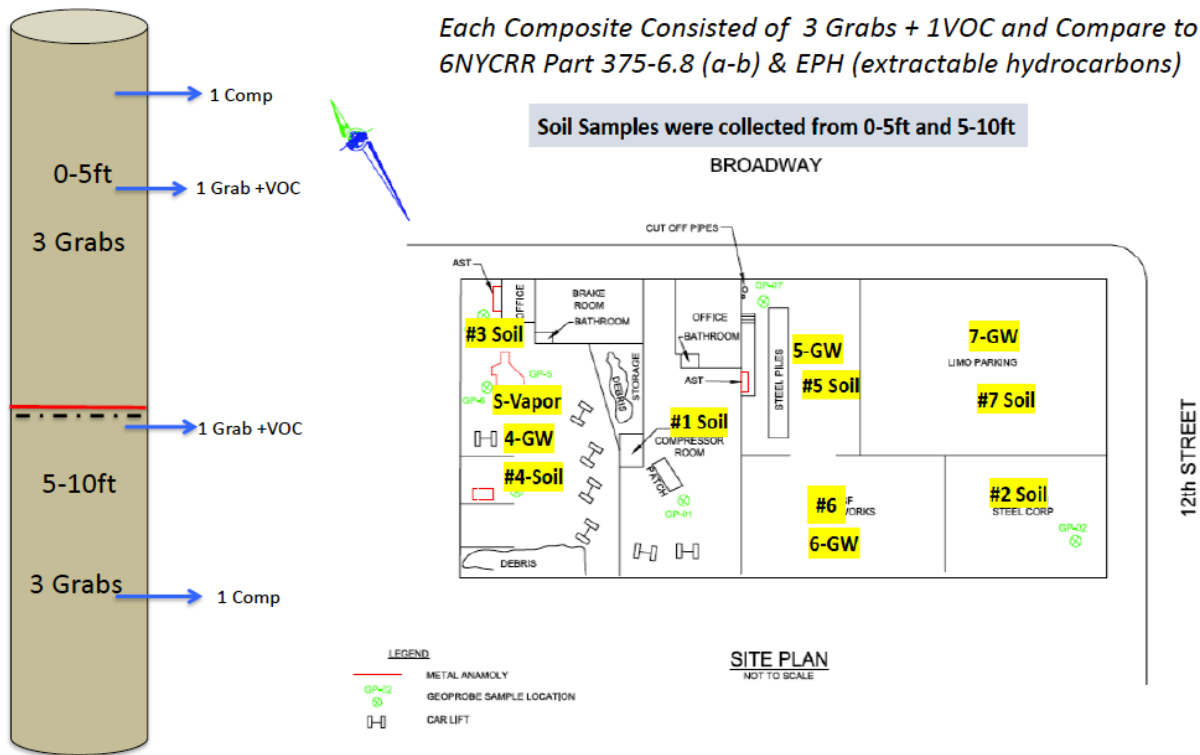
Field Investigation

Restoration LLC; performed in-situ soil characterization soil sampling between September 27 and October 3, 2019. DK Drilling of, New York advanced 14 soil borings (TP-1-2-3-4-5-6-7-0-5ft and again 5-10ft vertically) and four (4) GW samples and one Soil Vapor sample was collected. Exterior soil borings were advanced using a Geoprobe® 7730DT direct-push track-mounted drill rig, and interior borings were advanced using a Geoprobe® 420M direct-push limited access drill rig. A site location map and soil boring location plan are provided as Figures 1 and 2, respectively.

Soil was recovered continuously from the surface to the bottom depth of each boring. Samples were collected into 0-5ft- or 5-10-foot-long acetate liners using a 2-inch diameter Macrocore® sampler. Soil was screened for visual, olfactory, and instrumental evidence of chemical or petroleum release, and was visually classified for soil type, grain size, texture, and moisture content. Instrumental screening for the presence of VOCs was performed with a photoionization detector (PID) equipped with a 3000 MiniRay PID-VOC meter. Following sample collection, borings were backfilled with soil cuttings that did not display evidence of environmental impacts. Excess soil cuttings were placed into sealed and labeled United Nations (UN)/Department of Transportation (DOT)-approved 55-gallon drums for disposal.

Up-Dated Sample Design Plan “Multiple Depth Profile”

Each Composite Consisted of 3 Grabs + 1VOC and Compare to 6NYCRR Part 375-6.8 (a-b) & EPH (extractable hydrocarbons)



Sampling Methods

14 soil sample sets, each consisting of one composite and one VOC grab soil sample, were collected. The site was divided into 7 sampling areas, TP1 through TP-707 and 4 GW & 1 Soil Vapor Samples were labeled **(Figure 2)** based on the previous PW Grosser 2009 report and projected excavation depths. Two sample sets that were representative of a discrete depth interval generally representing historic fill material or underlying native soil, were collected from each area. Grab samples were collected from the depth interval exhibiting the greatest visual, olfactory, and instrumental evidence of chemical or petroleum impacts, if observed. The composite samples were created by separating historic fill material and native soil from the borings within each grid. The material was homogenized before collecting a sample. Grab soil samples submitted for VOC analysis were collected using 2oz glass jar sampling kits. Grabs were collected from a measured from 0-5ft location from within the boring sleeve and again at 5-10ft. A composite was collected of the 0-5ft and 5-10ft sample and placed into a stainless-steel bowl and mixed

into a composite sample; with one VOC grab at the highest PID reading from 0-to terminal depth of excavation.

We also visually screened for all recognizable uncontaminated concrete, asphalt, rock, brick and soil (RUCARBS) and for the presence of slag & flyash/coal-tar within the 0-7ft layer in three of the four grids and confirmed these historic fill indicators commingled with RUCARBS solid waste. PID-VOC was also used to record highest/lowest readings during grab samples for compositing and VOC grabs. All soil samples were placed in laboratory approved containers and cooled with ice to 4C. The samples will be transported to a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory under proper chain-of-custody-protocol. All of the samples will be compared for the following 6NYCRR Part 375 (a) Unrestricted Use list compounds: for SVOCs, VOC, PCBs, Pesticides, Herbicides and RCRA 8 metal list. Sampling equipment will be decontaminated between each sample collection. Samples were stored in laboratory provided glass jars, kept on ice, and transported to the lab under chain-of-custody procedures.

Each location TP has its own separate composite sample. For the VOC sample a 2 oz jar was quickly submerged into the core sample of dirt and filled to the surface with soil and closed for analysis. Between each sample, the shovel and spoon bowl were wiped clean with a towel and deionized water. All samples were transported to a New York State Certified Commercial Laboratory for analysis. The analytical test method for the soil & water boring samples collected were analyzed based on USEPA Test Methods 8260-8270 for volatile organic compounds and semi volatile organic compounds were followed. NELAP Accredited Lab CT License No. PH-0723 New Jersey License No. CT-005 New York License No. 10854 PA License No. 68-04440.

Sample Details (correlates to analytical results in appendices 2-4)

Soil Boring Locations

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20E0916-01	TP-1 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-02	TP-1 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-03	TP-2 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-04	TP-2 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-05	TP-3 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-06	TP-3 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-07	TP-4 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-08	TP-4 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-09	TP-5 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-10	TP-5 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-11	TP-6 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-12	TP-6 5-10 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-13	TP-7 0-5 FT + VOC	Soil	05/29/2020	05/29/2020
20E0916-14	TP-7 5-10 FT + VOC	Soil	05/29/2020	05/29/2020

Groundwater Samples

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20E0924-01	GW 2	Water	05/29/2020	05/29/2020
20E0924-02	GW-4	Water	05/29/2020	05/29/2020
20E0924-03	GW-5	Water	05/29/2020	05/29/2020
20E0924-04	GW-6	Water	05/29/2020	05/29/2020

Soil Vapor Sample

Sample: 2-4-5-6

Soil Vapor: Grid #3

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20E0922-01	Soil Vapor GRID #3	Soil Vapor	05/29/2020	05/29/2020

Results & Discussion

Historic Fill

The asphalt or concrete substrates in the work garages or parking lots are underlain by a fill layer extending from surface grade to depths ranging from about 1 to 10 ft bgs. The fill layer was shallowest in the 5-6-7 and deepest in the grids 1-2-3-4. The historic fill predominantly consists of a brown, fine to medium sand and gravel matrix. The historic

fill material was heterogeneous and contained various amounts of glass, organic fibers, wood, coal, ash, slag, caked petroleum, metal, brick and concrete.

Native Soil Layers

The historic fill material is underlain by a native tan to brown, fine- to coarse-grained sand with trace silt and fine gravel observed at depths of about 1 to at least 7-10ft feet bgs.

Bedrock

According to the USGS Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, dated 1994, bedrock beneath the site is the Hartland Formation. The Hartland Formation is comprised of 1) quartz-biotite-muscovite schist, 2) gray, fine-grained quartz-muscovite-biotite schist, 3) is white to pinkish-white, gneissic granite, 4) is a dark greenish-black amphibolite, and 5) gray, unevenly foliated gneissic schist. Competent bedrock was not encountered during this RI.

Soil Grab Samples Results

PID-VOC Analysis

Sample #1 (0-5ft) =100ppm

Sample #2=ND (0-5ft) =150ppm, (5-10ft) = 77ppm

Sample #3=ND (0-5ft) =122ppm, (0-5ft) = 51ppm

Sample #4=ND (0-5ft) =171ppm, (0-5ft) = 59ppm

Sample #5=ND (0-5ft) =67ppm, (0-5ft) = 23ppm

Sample #6=ND (0-5ft) = 44ppm, (0-5ft) = 31ppm

Sample #7=ND (0-5ft) =22ppm, (0-5ft) = 22ppm

Physical Examination

Sample sets and corresponding depth intervals are described as follows:

TP-1: 0-.5 feet bgs (historic fill) and 5-10 feet bgs (historic fill & native soil)

TP-2: 0-.5 feet bgs (historic fill) and 5-10 feet bgs (historic fill & native soil)

TP-3: 0-.5 feet bgs (historic fill) and 5-10 feet bgs (historic fill & mixed native soil)

TP-4 0-.5 feet bgs (historic fill) and 5-10 feet bgs (historic fill & mixed native soil)

TP-5 0-.5 feet bgs (historic fill) and 5-10 feet bgs (mixed native soil)

TP-6 0-.5 feet bgs (historic fill) and 5-10 feet bgs (mixed native soil)

TP-7 0-.5 feet bgs (historic fill) and 5-10 feet bgs (mixed native soil)

As per the Report Date: June 5th 2020; Client Project ID: 11-06 Broadway Astoria NY, York Project (SDG) No.: 20E0916. Grid #'s 1-7 had a homogenous presence of decomposed chemically oxidized decomposed soils, which consisted of ash, slag, coal fragments and RCA co-mingled into the soils, consistent with most of the soils found in the 5 Boroughs of New York City. Areas 7-8 had the moderate presence of historic fill fragments comingled into the soils in the shallow to deeper depths. Compared to grids 1-2-3-4-5 and 6 having a higher presence of historic fill and hydrocarbon PID-VOC signatures. **Appendix 2**, Soil Analysis Summary, compared to 6NYCRR NYSDEC Unrestricted, and Restricted Residential Use Soil Clean Up Objectives, specifically for the protection of ground water RSCOs. Historic fill is rejected at most NYC Part 360 Facilities, and a site such as this one, may have a difficult time disposing of said physical characteristics commonly found in historic fill.

For the identification of UST leaks or impacts we used NJDEP EPH (Cat. 2 Non-Fractionated) hydrocarbons, which is a signature of PAHs consistent in petroleum contaminated soils in a decomposed state. We also used the visual appearance of “Historic fill” material. Historic fill means non-indigenous material, deposited to raise the topographic elevation of the site, which was contaminated prior to emplacement, and is in no way connected with the operations at the location of emplacement and which includes, without limitation, construction debris, dredge spoils, incinerator residue, demolition debris, fly ash, or non-hazardous solid waste. Historic fill consists of municipal solid waste ash, debris, sediments and other wasters that were used to create usable land by filling shorelines, wetlands, and topographical locations prior to 1960. Historic fill contains SVOCs, PAH, organic pesticides, PCBs and other contaminants that can exceed, human health standards, and for the protection of ground water including ecological resources.

SVOCs

Seven polycyclic aromatic hydrocarbons (PAH) were detected at concentrations exceeding the UU, RURR, and/or PG SCOs in twelve samples from soil borings SB01, SB02, SB03, SB04, SB05 and SB09 collected at depths ranging from surface grade to 11

feet bgs. PAH impacted material is confined within the historic fill. **Appendix 2** provides a summary of PAHs that were detected above UU, RURR, and/or PG SCO.

Pesticides

No pesticides were detected at concentrations exceeding the UU, RURR and/or PG SCO.

Herbicides

No herbicides were detected at concentrations exceeding the UU, RURR and/or PG SCO.

PCBs

Total PCBs were detected in the sample collected from SB05 from 0 to 2 feet bgs at a concentration of 0.236 mg/k, exceeding the UU SCO PCB of 0.1 mg/k.

Metals

Seven metals were detected at concentrations exceeding the UU, RURR, and/or PG SCO in samples collected at depths ranging from surface grade to 11 feet bgs in soil borings SB01, SB02, SB03, SB05, SB06 and SB09. Metal-impacted soil is confined within the historic fill material. **Appendix 2** provides a summary of metals that were detected above UU, RURR, and/or PG SCO.

Ground Water

Groundwater samples were collected from the (4) borings (2-4-5-6) installed to characterize the quality of groundwater beneath the site and to identify the high PID readings associated with the soils and to see if these PID readings are indicative of a local spill within the soils or off-site migration. In addition, since field screening indicated the presence of VOCs in the soil samples collected at 1-2-3-4-5-6, groundwater samples were also collected at this location. Soil and groundwater samples were contained in pre-cleaned, laboratory-supplied glassware and stored in a cooler with ice for transport to Environmental Testing Laboratories, Inc. (ETL) of Farmingdale, New York, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory. The samples from the areas near geophysical anomalies (GP-04 through GW-3) were analyzed for the following:

□ Volatile Organic Compounds by EPA Method 8260 (STARS List), and

□ Semi-volatile Organic Compounds by EPA Method 8270 (STARS List)

The soil and groundwater samples collected from the borings used to characterize general subsurface quality beneath the site were analyzed for the following:

- Volatile Organic Compounds by EPA Method 8260,
- Semi-volatile Organic Compounds by EPA Method 8270 (Base Neutrals List),
- Pesticides/PCBs by EPA Method 8081/8082, and
- TAL Metals TAL Metals analysis related to groundwater were completed on both filtered and unfiltered samples.

Groundwater Results

Groundwater analytical results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQS) for Class GA groundwater, as specified in Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values on Groundwater Effluent Limitations, June 1998. All GW results match the soil vapor results found below.

As shown on **Appendix 3**, several VOCs were detected at concentrations slightly exceeding the NYSDEC Standards in the groundwater samples collected from GW-2-4-5- and 6. VOCs including 1,2,4,5 tetramethylbenzene, sec-Butylbenzene, isopropylbenzene, p-Isopropyltoluene , n-butylbenzene, 1,2-Dibromo-3-chloropropane, total xylenes, and sec-butylbenzene were detected in the sample collected from all groundwater samples. This groundwater impact appears to be the result of hydraulically offsite source and some localized site-specific petroleum sources at S or TP:1-2-4-7. Figure (2) above shows area S 1 & 4 indicate where the hydraulic lifts were used during past ownership auto practices, and an AST to the south of the property which explains GW and SV contamination as a source of petroleum hydrocarbons that have been impacting the soils, and GW. S-7 was not investigated in the PW Grosser report, however, we did conduct GW, Soil and SV analysis of TP-7. We found both GW, Soil and SV exceedances above the RSCOs found in 6NYCRR NYSDEC Subpart 375 list under Restricted Residential, Commercial and Industrial standards. This source are associated with past usage at the sites industrial activities consisting or petroleum hydrocarbons indicative of a spill. We did not run GW

PCBs or pesticides due to non-detection found in the PW Grosser Report. However, SVOCs were detected in the groundwater samples collected from at concentrations exceeding the NYSDEC Groundwater Standards. It is believed that the SVOCs detected in the groundwater are a result of an upgradient offsite source and localized petroleum spill. SVOC groundwater sample results are summarized in **Appendix 3**. As shown in **Appendix 3**, metals were detected in each of the three groundwater samples above NYSDEC Standards typical of the plume in the surrounding areas.

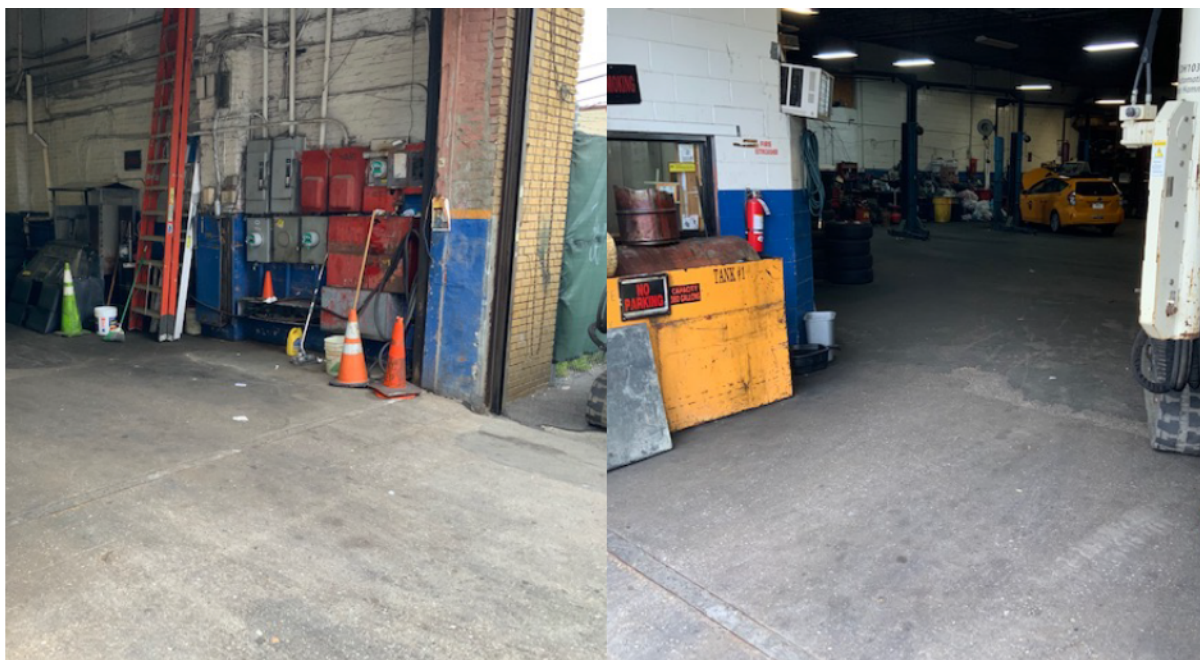


Figure 3: Target Property. The figure above shows a aerial view of the target property where soil, soil vapor, and water samples were taken for analysis

Sample Core Analysis – Soils

Figure 2 shows a detailed description of how/where samples were taken for analysis to assist the reader in understanding the below physical results.

TP-01



Figure 4: Sample Location #1. The figure above shows soil core samples at sampling location TP-01. Soil core samples were taken at two different depths (i.e.: 0-5ft and 5-10 ft) at the same location. Samples were analyzed for VOCs, SVOCs, pesticides, EPH, lead, heavy metals, mercury, chromium, cyanide, oxidation-reduction potential, pH, and PCBs.

TP-02



Figure 5: Sample Location #2. The figure above shows soil core samples at sampling location TP-02. Soil core samples were taken at two different depths (i.e.: 0-5ft and 5-10 ft) at the same location. Samples were analyzed for VOCs, SVOCs, pesticides, EPH, lead, heavy metals, mercury, chromium, cyanide, oxidation-reduction potential, pH, and PCBs.

TP-03



Figure 6: Sample Location #3. The figure above shows soil core samples at sampling location TP-03. Soil core samples were taken at two different depths (i.e.: 0-5ft and 5-10 ft) at the same location. Samples were analyzed for VOCs, SVOCs, pesticides, EPH, lead, heavy metals, mercury, chromium, cyanide, oxidation-reduction potential, pH, and PCBs.



Figure 7: Sample Locations #4 & 5. The figure above shows examples of soil core samples at sampling locations TP-04 and TP-05. Soil core samples were taken at two different depths (i.e.: 0-5 ft and 5-10 ft) at the both locations. Samples were analyzed for VOCs, SVOCs, pesticides, EPH, lead, heavy metals, mercury, chromium, cyanide, oxidation-reduction potential, pH, and PCBs.

Sample Analysis – Soil Vapor

As a QA/QC measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber to ensure that the soil vapor and sub-slab vapor sampling points were properly sealed above the target sampling depth, thereby preventing ambient air infiltration to the subsurface. Direct readings of less than 10 percent helium in the sampling tube were considered sufficient to verify a tight seal at each sample point. Each soil vapor point was purged using a MultiRAE meter at a rate less than 0.2 liters per minute (L/min) to evacuate a minimum of three sample tubing volumes prior to sample collection. The purged soil vapor was also monitored for VOCs and the values were recorded. After purging was completed, the soil vapor samples were collected into laboratory-supplied, batch-certified Summa[®] canisters. Soil vapor and sub-slab vapor samples were collected into 2.7-liter Summa[®] canisters that were calibrated for a sampling rate of about 0.0225 L/min for 2 hours of sampling. Soil vapor construction/sampling logs

are provided in **Appendix 3**. The Summa[®] canister was labeled and transported via courier to York Analytical Labs in CT, a NYSDOH ELAP-certified laboratory under standard chain-of-custody protocol. Soil vapor and sub-slab vapor air samples were analyzed for VOCs by USEPA Method TO-15. Six soil vapor samples (including one duplicate) and one outdoor ambient air sample were collected and submitted for laboratory analysis for USEPA TO-15 VOCs. No standard currently exists for soil vapor samples in New York State. Soil vapor sample results are summarized in **Appendix 4**.

Soil Vapor Analytical Data

Total VOCs in soil vapor samples ranged from 346 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in SV04 to 2,015 $\mu\text{g}/\text{m}^3$ in SV05. VOCs detected in soil vapor samples included:

- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- 2-Butanone
- 2-Hexanone
- 4-Methyl-2-pentanone
- Toluene
- Cyclohexane
- Acetone
- Benzene
- Dichlorodifluoromethane
- Ethyl Alcohol
- Ethylbenzene
- Heptane
- N-Hexane
- O-Xylene
- P&M Xylenes
- P-Ethyltoulene

Most VOCs found such as Xylenes are an important petrochemical produced by [catalytic reforming](#) and also by coal combustion in the manufacture of coke-fuel. They also occur in crude oil in concentrations of about 0.5–1%, depending on the source. Small quantities occur in gasoline and aircraft fuels indicative of what was found in the GW plume.

Petroleum-related compounds including; 1,2,4-Trimethylbenzene, butanone, benzene, cyclohexane, toluene, ethylbenzene, and xylenes (BTEX) were detected at concentrations ranging from about 7.2 $\mu\text{g}/\text{m}^3$ in SV04 to 3400 $\mu\text{g}/\text{m}^3$ in SV#3; 0-2ppm VOC were shown in ambient air analysis as per continuous PID-VOC readings. No PCE or TCE compounds were found in detection of any of the samples.

Conclusion

A localized source, and off-site sources of petroleum compounds appear to be the main source of contamination at the site. It is important to note that all of the Soil and GW results show that there were NO RCRA hazardous metals, PCBs, Pesticides VOCs found at the site according to this in-situ pollution fingerprinting characterization report. Therefore; we shall characterize these soils to be non-hazardous contaminated soils. These data appear in accordance with the NYSDEC, historic fill materials containing petroleum, slag and coal, however, such material may be classified as industrial waste in NY, ID-27 dry industrial waste in NJ, or Regulated Fill in PA. Therefore, these materials characterized by this sampling event, may be managed as non-hazardous solid waste in accordance with applicable regulations. It is important to note that coal, slag and ash cannot be taken to any NYSDEC Part 360 Facility in Region #1 and #2 as there are strict regulatory standards that these facilities must meet under the new Part 360 Rules. Regardless of the by-product produced these soils can be managed with general non-hazardous PPE.

No Organochlorine Pesticides or PCBs were detected in the groundwater samples collected. However, SVOCs were detected in the groundwater samples at concentrations exceeding the NYSDEC Groundwater and Soil Vapor DOH Standards. Highest SVOC concentrations were found in concentrations above their respective Part 375 RRSCOs. This and the past PW Grosser report confirmed that historic fill material located throughout the site containing VOCs, SVOCs, pesticides, and metals at concentrations above the Part 375 UU, RURR, and/or PG SCOs. The historic fill layer, which extends to depths ranging from 0 to 5 and appears to extend down to 8ft feet bgs according to physical examination, was most shallow in the south region of the site. The historic fill predominantly consists of a brown, fine to medium sand and gravel matrix. The historic fill material was heterogeneous and contained various amounts of glass, organic fibers, coal, ash, slag, metal, brick and concrete.

Given that Historic fill was encountered across the site from the surface grade to depths ranging from about 1 to 10 feet bgs. SVOCs, pesticides, PCBs, and metals were detected at concentrations above the Part 375 UU, PG and/or RURR SCO in samples of historic fill to depths of up to 11 feet bgs. Concentrations of SVOCs, pesticides, and metals identified during this pollution fingerprinting and environmental characterization are typical of those found in historic fill in New York City and are likely associated with the general quality of the fill placed at the site and past industrial use. Acetone is a common laboratory contaminant and its presence is not likely related to the composition of historic fill. RCRA metals were not detected in groundwater samples at an alarming result; therefore, the detections of these metals are likely the result of entrained sediment in groundwater derived from historic fill. Iron, manganese, and sodium were detected in dissolved groundwater samples above SGVs and are characteristic of naturally occurring groundwater conditions. SVOCs identified in groundwater may be the result of entrained sediment from historic fill and the result of petroleum impacts discussed below related to an AST or UST.

PW GROSSER CONCLUSIONS

The subsurface investigation included the completion of a geophysical survey to determine the absence/presence and location of suspected USTs at the site. Results of the geophysical survey did not indicate the presence of anomalies indicative of USTs (**Appendix 1**). The subsurface investigation also included the installation of soil borings and the collection of soil and groundwater samples from beneath the site. Analytical results indicated that elevated concentrations of SVOCs and metals were detected in a few of the soil samples at concentrations slightly exceeding the RSCOs. However, these concentrations are likely a result of historic fill material commonly found in metropolitan areas, rather than a specific source of contamination. VOCs were detected at concentrations slightly exceeding the NYSDEC Groundwater Standards in two of the groundwater samples analyzed. It is believed that the VOCs detected in the groundwater are a result of an upgradient offsite source as no VOCs were detected in the soil samples collected above the groundwater table. Based on groundwater table elevation maps, groundwater flow beneath the site is in a northwesterly direction. Therefore, it is believed that the source of VOC contamination

detected in the groundwater beneath the site is a result of a source to the southeast of the subject property.

CERTIFICATION

I, Dr. James M. Cervino, am a Qualified Environmental Professional as defined in §43-140. I have primary direct responsibility for implementation of this remedial characterization Phase 2 report.

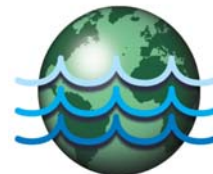
Dr. James M. Cervino June 21st 2020.

QEP Name



QEP Signature





February 17, 2009

Mr. Scott Sambur, Esq.
Seward & Kissel, LLP
1 Battery Park Plaza, Floor 22
New York, NY 10004

RE: Subsurface Investigation – 11-06 Broadway, Astoria, New York

Dear Mr. Sambur:

P.W. Grosser Consulting, Inc. (PWGC) has prepared this report to document the results of the Subsurface Investigation (SSI) performed at the above-referenced property. The scope of work was based upon our recent conversation and included the characterization of soil and groundwater beneath the site. The purpose of the investigation was to determine the environmental quality of the site.

The subsurface investigation included the completion of a geophysical survey to determine the absence/presence and location of suspected underground storage tanks (USTs) at the site. Results of the geophysical survey did not indicate the presence of anomalies indicative of USTs. The subsurface investigation also included the installation of soil borings and the collection of soil and groundwater samples from beneath the site. Analytical results report concentrations of semi-volatile organic compounds (SVOCs) and metals in a few of the soil samples at concentrations slightly exceeding the New York State Department of Environmental Conservation (NYSDEC) Recommended Soil Cleanup Objectives (RSCOs). However, these concentrations are likely a result of historic fill material commonly found in metropolitan areas, rather than a specific source of contamination.

Volatile organic compounds (VOCs) were detected at concentrations slightly exceeding the NYSDEC Groundwater Standards in two of the groundwater samples analyzed. It is believed that the VOCs detected in the groundwater are a result of an upgradient offsite source as no VOCs were detected in the soil samples collected above the groundwater table.

PWGC does not recommend additional investigation or remediation at the subject site. However, if plans are created to redevelop the property, excess soils may need to be disposed of at properly permitted facilities due to the elevated concentrations of SVOCs and metals identified in the soils. In addition, it is recommended that proposed buildings be designed with vapor barriers and/or sub-slab depressurization systems (SSDS) to prevent vapor intrusion.

BACKGROUND

The subject site is known as 11-06 Broadway in Astoria, New York. The property is approximately 0.5 acres in size and contains a 10,000 square foot commercial building utilized by two automotive repair tenants, a 5,200 square foot commercial building utilized by an ironworks and steel fabricator, and a vacant lot used for automobile parking. Reportedly, an out of service underground storage tank (UST) is located beneath the floor of one of the body shops. In addition, a galvanizing operation exists on an adjacent property.

In order to determine soil and groundwater quality beneath the site, PWGC recommended a subsurface investigation be performed including the following:

- Completion of a geophysical survey to determine the absence/presence and locations of suspected USTs.
- Collection of soil samples around the perimeter of USTs to determine if past leakage has impacted the subsurface.
- Collection of soil and groundwater samples beneath the property to gain general quality information and to determine if adjacent properties have impacted the subsurface.

FIELD ACTIVITIES

Geophysical Investigation

PWGC contracted Naeva Geophysics (Naeva) to perform a geophysical survey of the property to determine the absence/presence and locations of undocumented USTs. The geophysical survey was performed on January 23, 2009 and overseen by a PWGC representative. Naeva technicians utilized a Fisher M-Scope metal detection instrument, a Subsite 950 utility locator, a Dynatel 2273 cable locator, and a Sensors & Software Smart Cart ground penetrating radar (GPR) to perform the site survey. Based upon results of the geophysical survey, several metallic anomalies were identified. However, the GPR survey determined that these anomalies were not indicative of USTs. Anomaly locations are shown on **Figure 1**. A copy of a letter report prepared by Naeva is contained in **Appendix A**.

Subsurface Investigation

On January 23, 2008, PWGC conducted the subsurface investigation which consisted of the completion of seven (7) soil borings at the subject site. Three soil borings (GP-01 through GP-03) were performed across the site to characterize general subsurface conditions. Two soil borings (GP-05 and GP-06) were installed near the large metal anomaly detected in the taxi cab repair shop. One soil boring (GP-4) was installed near the metal anomaly detected in the spray booth of the taxi cab repair shop. One soil boring was performed near a suspected vent pipe located in the vacant lot of the Ironworks building, which was identified by the property owner. Boring locations are illustrated on **Figure 1**. Soils were sampled continuously from grade using a track-mounted Geoprobe®. The Geoprobe® utilizes direct-push technology to advance sampling equipment into the subsurface and retrieve samples of soil and groundwater from discreet depths. Geoprobe® services were provided by LVS, Inc. of Wading River, New York.

A PWGC hydrogeologist was on-site to oversee and document the soil boring effort. Soils beneath the site were generally characterized as dry, poorly-graded sand and silt with some concrete material extending to about five feet below grade. Groundwater at the site was encountered at approximately 8-12 feet below ground surface (bgs). It should be noted that the elevation in the auto repair shop was raised four feet from side walk elevation. Soil boring logs are included as **Appendix B**.

Soil samples were screened in the field for the presence of VOCs using a photo-ionization detector (PID). The PID is a field sensing instrument used to detect the presence of a wide range of VOCs contained in many industrial chemical and petroleum products. PID responses above background levels were obtained from the soil sample collected from beneath the ironworks building (GP-02) and from the soil sample collected adjacent to the suspected vent pipe (GP-07).

Since the presence of VOCs was not detected in soil borings GP-01 and GP-03 through GP-06, the soil sample from above the groundwater table was collected. Since field screening indicated the

presence of VOCs in the samples collected from GP-02 and GP-07, a soil sample was collected just below the groundwater table and an additional soil sample was collected above the groundwater table.

Groundwater samples were collected from the three borings (GP-01 through GP-03) installed to characterize general subsurface quality beneath the site. In addition, since field screening indicated the presence of VOCs in the soil samples collected at GP-02 and GP-07, groundwater samples were also collected at this location.

Soil and groundwater samples were contained in pre-cleaned, laboratory-supplied glassware and stored in a cooler with ice for transport to Environmental Testing Laboratories, Inc. (ETL) of Farmingdale, New York, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory.

The soil samples from the areas near geophysical anomalies (GP-04 through GP-06) were analyzed for the following:

- Volatile Organic Compounds by EPA Method 8260 (STARS List), and
- Semi-volatile Organic Compounds by EPA Method 8270 (STARS List)

The soil and groundwater samples collected from the borings used to characterize general subsurface quality beneath the site were analyzed for the following:

- Volatile Organic Compounds by EPA Method 8260,
- Semi-volatile Organic Compounds by EPA Method 8270 (Base Neutrals List),
- Pesticides/PCBs by EPA Method 8081/8082, and
- TAL Metals

TAL Metals analysis related to groundwater were completed on both filtered and unfiltered samples.

These general site parameters are commonly required by the New York City Department of Environmental Protection (NYCDEP) and include a wide range of potential contaminants. The STARS List includes compounds commonly associated with petroleum products.

ANALYTICAL RESULTS

Soil and groundwater analytical data are summarized on **Tables 1** through **8**. Laboratory data sheets are included as **Appendix C**.

Soil

Soil analytical results were compared to the Recommended Soil Cleanup Objectives (RSCOs) specified in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046.

As shown on **Tables 1 and 2**, no VOCs, pesticides, or PCBs were detected in the soil samples collected at concentrations exceeding the NYSDEC RSCOs. Several VOCs were detected at concentrations below the RSCOs in the samples collected from GP-02 and GP-07. Highest concentrations of VOCs were detected in the samples collected below the groundwater table.

As shown on **Table 3**, SVOCs were detected in the samples collected from each boring. SVOC concentrations exceeded the RSCOs in four of the six samples analyzed.

Finally, metals, including zinc, mercury and magnesium were detected in the three samples analyzed at concentrations exceeding the RSCOs. Soil sample results for metals are presented on **Table 4**.

Although elevated concentrations of SVOCs and metals were detected in the soil samples collected, there does not appear to be a specific onsite contaminant source. These concentrations are likely a result of urban fill material commonly found in metropolitan areas.

Groundwater

Groundwater analytical results were compared to the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQS) for Class GA groundwater, as specified in Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values on Groundwater Effluent Limitations, June 1998.

As shown on **Table 5**, several VOCs were detected at concentrations slightly exceeding the NYSDEC Standards in the groundwater samples collected from GP-02 and GP-07. VOCs including 1,2,4,5 tetramethylbenzene, isopropylbenzene, n-butylbenzene, and sec-butylbenzene were detected in the sample collected from GP-02, while trichloroethylene was detected in the sample collected from GP07. This groundwater impact appears to be the result of hydraulically upgradient offsite source, as elevated concentrations of these compounds were not detected above the groundwater table in the soil samples collected. Regional groundwater flow direction is in a northwesterly direction.

As shown on **Table 6**, no pesticides or PCBs were detected in the groundwater samples collected. However, SVOCs were detected in the groundwater samples collected from GP-02 and GP-03 at concentrations exceeding the NYSDEC Groundwater Standards. Highest SVOC concentrations were detected in the sample collected from GP-02. It is believed that the SVOCs detected in the groundwater are a result of an upgradient offsite source. SVOC groundwater sample results are summarized on **Table 7**.

As shown on **Table 8**, metals were detected in each of the three groundwater samples above NYSDEC Standards. However, the metals detected are naturally occurring and are commonly found at these concentrations in shallow groundwater.

CONCLUSIONS AND RECOMMENDATIONS

The subsurface investigation included the completion of a geophysical survey to determine the absence/presence and location of suspected USTs at the site. Results of the geophysical survey did not indicate the presence of anomalies indicative of USTs. The subsurface investigation also included the installation of soil borings and the collection of soil and groundwater samples from beneath the site. Analytical results indicated that elevated concentrations of SVOCs and metals were detected in a few of the soil samples at concentrations slightly exceeding the RSCOs. However, these concentrations are likely a result of historic fill material commonly found in metropolitan areas, rather than a specific source of contamination.

VOCs were detected at concentrations slightly exceeding the NYSDEC Groundwater Standards in two of the groundwater samples analyzed. It is believed that the VOCs detected in the groundwater are a result of an upgradient offsite source as no VOCs were detected in the soil samples collected above the groundwater table. Based on groundwater table elevation maps, groundwater flow beneath the site is in a northwesterly direction. Therefore, it is believed that the source of VOC contamination

detected in the groundwater beneath the site is a result of a source to the southeast of the subject property.

PWGC does not recommend additional investigation or remediation at the subject site. However, if plans are created to redevelop the property, excess soils may need to be disposed of at properly permitted facilities due to the elevated concentrations of SVOCs and metals identified in the soils. In addition, it is recommended that proposed buildings be designed with vapor barriers and/or sub-slab depressurization systems (SSDS) to prevent vapor intrusion. Costs to dispose of historic fill material may range from \$40-\$60/ton (transportation and disposal) while costs to install a vapor barrier/SSDS may range from \$10-\$25/square foot.

If you have any questions or comments, please do not hesitate to contact this office.

Sincerely Yours,
P.W. Grosser Consulting



Zeb Youngman
Senior Project Manager



Frank P. Castellano
Vice President

Tables

TABLE 2
SOIL ANALYTICAL RESULTS FOR PESTICIDES/PCBs
EPA METHOD 8081/8082

11-06 Broadway - Astoria, New York

Compound	NYSDEC Clean-up Objectives ⁽¹⁾	GP-01 (8-10') 1/23/2009	GP-02 (4-8') 1/23/2009	GP-03 (4-8') 1/23/2009
Pesticides 8081/8082 - ug/kg				
Aroclor 1016	1,000^	<14.6	<14.0	<14.0
Aroclor 1221	1,000^	<14.6	<14.0	<14.0
Aroclor 1232	1,000^	<14.6	<14.0	<14.0
Aroclor 1242	1,000^	<14.6	<14.0	<14.0
Aroclor 1248	1,000^	<14.6	<14.0	<14.0
Aroclor 1254	1,000^	<14.6	<14.0	<14.0
Aroclor 1260	1,000^	<14.7	<14.1	<14.2
p,p-DDD	2,900	<0.52	<0.50	<0.51
p,p-DDE	2,100	<1.25	<1.20	<1.20
p,p-DDT	2,100	<0.63	<0.60	<0.61
Aldrin	41	<1.22	<1.17	<1.18
a BHC	110	<0.77	<0.74	<0.74
a Chlordane	NS	<1.04	<1.00	<1.00
b BHC	200	<0.63	<0.60	<0.61
Chlordane	540	<8.10	<7.79	<7.82
d BHC	300	<1.32	<1.26	<1.27
Dieldrin	44	<1.33	<1.28	<1.28
Endosulfan 1	900	<1.19	<1.14	<1.15
Endosulfan 2	900	<0.94	<0.91	<0.91
Endosulfan Sulfate	1,000	<0.84	<0.81	<0.81
Endrin	100	<1.20	<1.15	<1.16
Endrin Aldehyde	NS	<0.87	<0.84	<0.84
Endrin ketone	NS	<1.11	<1.06	<1.07
gamma-BHC (Lindane)	60	<0.97	<0.93	<0.93
gamma-Chlordane	540	<1.23	<1.19	<1.19
Heptachlor	100	<1.08	<1.04	<1.04
Heptachlor Epoxide	20	<1.15	<1.11	<1.11
Methoxychlor	10,000	<1.02	<0.98	<0.99
Toxaphene	NS	<42.5	<40.8	<41.0

Notes:

(1) NYSDEC Recommended Soil Cleanup Objectives (RSCO), Technical and Administrative Guidance Memorandum (TAGM) #4046, 12/00

NS - No standard

MDL - Method detection limit

Bold/highlighted - indicated exceedance of the NYSDEC Cleanup Objective

^ - 1,000 ppb in surface soil and 10,000 ppb in subsurface soil

TABLE 3
SOIL ANALYTICAL RESULTS FOR
SEMI-VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8270

11-06 Broadway - Astoria, New York

Compound	NYSDEC Clean-up Objectives ⁽¹⁾	GP-01 (8-10') 1/23/2009	GP-02 (4-8') 1/23/2009	GP-03 (4-8') 1/23/2009	GP-04 (6-8') 1/23/2009	GP-05 (4-8') 1/23/2009	GP-06 (6-8') 1/23/2009
Semi-Volatile Organic Compounds by 8270 - ug/kg							
124-Trichlorobenzene (sv)	NS	<48.4	<46.5	<46.7	N/A	N/A	N/A
1,2 Dichlorobenzene(sv)	NS	<36.0	<34.6	<34.7	N/A	N/A	N/A
1,3 Dichlorobenzene(sv)	NS	<39.1	<37.6	<37.8	N/A	N/A	N/A
1,4 Dichlorobenzene(sv)	NS	<38.0	<36.5	<36.6	N/A	N/A	N/A
2,4-Dinitrotoluene	NS	<69.8	<67.1	<67.4	N/A	N/A	N/A
2,6-Dinitrotoluene	1000	<48.0	<46.1	<46.3	N/A	N/A	N/A
2-Chloronaphthalene	NS	<56.1	<53.9	<54.2	N/A	N/A	N/A
2-Methylnaphthalene	36,400	99.8	245	<44.6	N/A	N/A	N/A
2-Nitroaniline	430 or MDL	<60.7	<58.3	<58.5	N/A	N/A	N/A
3,3'-Dichlorobenzidine	NS	<56.1	<53.9	<54.2	N/A	N/A	N/A
3-Nitroaniline	500 or MDL	<20.0	<19.2	<19.3	N/A	N/A	N/A
4-Bromophenyl phenyl ether	NS	<52.9	<50.8	<51.0	N/A	N/A	N/A
4-Chloroaniline	220 or MDL	<44.4	<42.6	<42.8	N/A	N/A	N/A
4-Chlorophenyl phenyl ether	NS	<45.3	<43.5	<43.7	N/A	N/A	N/A
4-Nitroaniline	NS	<114	<109	<110	N/A	N/A	N/A
Acenaphthene	50,000	56	<47.1	<47.3	182	<49.9	<46.7
Acenaphthylene	50,000	158	<38.5	<38.7	363	<40.8	<38.2
Anthracene	50,000	248	<49.8	<50.0	1130	<52.8	62.9
Benzo(a)anthracene	224 or MDL	419	<47.3	<47.5	4490	79.1	129
Benzo(a)pyrene	61 or MDL	385	<58.3	<58.5	4550	77.2	105
Benzo(b)fluoranthene	1,100	279	<46.4	<46.6	4110	71.7	86.1
Benzo(ghi)perylene	50,000	193	<85.5	<85.8	2500	131	<84.8
Benzo(k)fluoranthene	1,100	331	<85.1	<85.5	3880	<90.3	91.2
Benzoic acid	NS	<6820	<6550	<6580	N/A	N/A	N/A
Benzyl alcohol	NS	<68.7	<66.0	<66.3	N/A	N/A	N/A
bis(2-Chloroethoxy)methane	NS	<48.2	<46.3	<46.5	N/A	N/A	N/A
bis(2-Chloroethyl)ether	NS	<55.1	<52.9	<53.1	N/A	N/A	N/A
bis(2-Chloroisopropyl)ether	NS	<42.7	<41.1	<41.2	N/A	N/A	N/A
bis(2-Ethylhexyl)phthalate	50,000	169	<73.3	<73.6	N/A	N/A	N/A
BenzylButylPhthalate	50,000	<61.5	<59.1	<59.3	N/A	N/A	N/A
Carbazole	NS	<67.1	<64.4	<64.7	N/A	N/A	N/A
Chrysene	400	467	<59.2	<59.4	4970	83.8	126
Dibenzo(a,h)anthracene	14 or MDL	<65.5	<63.0	<63.3	723	<66.2	<61.9
Dibenzofuran	6,200	<57.3	<55.0	<55.3	N/A	N/A	N/A
Diethyl Phthalate	7,100	73.2	<62.4	<62.7	N/A	N/A	N/A
Dimethyl Phthalate	2,000	<38.9	<37.4	<37.5	N/A	N/A	N/A
Di-n-Butyl Phthalate	8,100	<76.1	<73.2	<73.5	N/A	N/A	N/A
Di-n-octyl Phthalate	50,000	<56.2	<54.0	<54.3	N/A	N/A	N/A
Fluoranthene	50,000	944	<61.6	73.6	11400	173	299
Fluorene	50,000	162	<45.0	<45.2	271	<47.7	<44.6
Hexachlorobenzene	410	<49.8	<47.9	<48.1	N/A	N/A	N/A
Hexachlorobutadiene	NS	<46.6	<44.7	<44.9	N/A	N/A	N/A
Hexachlorocyclopentadiene	NS	<360	<346	<347	N/A	N/A	N/A
Hexachloroethane	NS	<51.8	<49.8	<50.0	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	3,200	188	<51.7	<51.9	2380	66	<51.3
Isophorone	4,400	<53.2	<51.1	<51.3	N/A	N/A	N/A
Naphthalene(sv)	13,000	<35.2	<33.8	<33.9	127	<47.7	<44.6
Nitrobenzene	200 or MDL	197	<61.0	<61.2	N/A	N/A	N/A
N-Nitrosodi-n-propylamine	NS	115	49.7	<45.2	N/A	N/A	N/A
N-Nitrosodiphenylamine	NS	<45.1	<43.3	<43.5	N/A	N/A	N/A
Phenanthrene	50,000	900	62.3	<51.1	6190	122	257
Pyrene	50,000	977	45.2	61	10600	149	261
Pyridine	NS	<66.7	<64.1	<64.4	N/A	N/A	N/A

Notes:

(1) NYSDEC Recommended Soil Cleanup Objectives (RSCO), Technical and Administrative Guidance Memorandum (TAGM) #4046, 12/00

NS - No standard

MDL - Method detection limit

J - Indicates estimated concentration

B - Indicates that the compound was detected in the method blank

U - Analyte not detected

Bold/highlighted - indicated exceedance of the NYSDEC Cleanup Objective

N/A - Not analyzed

TABLE 4
SOIL ANALYTICAL RESULTS FOR
TOTAL METALS

11-06 Broadway - Astoria, New York

Compound	NYSDEC Clean-up Objectives ⁽¹⁾	Eastern USA Background	GP-01 (8-10') 1/23/2009	GP-02 (4-8') 1/23/2009	GP-03 (4-8') 1/23/2009
Total Metals - mg/kg					
Aluminum as Al	SB	33,000	6660	6710	5210
Antimony as Sb	SB	NS	<0.23	<0.22	<0.22
Arsenic as As	7.5 or SB	3 -12	3.57	4.59	<0.37
Barium as Ba	300 or SB	15 - 600	79.9	39.1	44.6
Beryllium as Be	0.16 or SB	0 - 1.75	<0.023	<0.022	<0.022
Cadmium as Cd	1 or SB	0.1 - 1	<0.035	<0.033	<0.033
Calcium as Ca	SB	130 - 35,000	10200	2270	28100
Chromium as Cr	10 or SB	1.5 - 40**	18.3	14.4	11.8
Cobalt as Co	30 or SB	2.5 - 60**	6.31	6.67	5.66
Copper as Cu	25 or SB	1 - 50	41	22.6	26.1
Iron as Fe	2,000 or SB	2,000 - 550,000	14200	16100	10500
Lead as Pb	500***	200-500	166	44.5	109
Magnesium as Mg	SB	100 - 5,000	2980	2130	5420
Manganese as Mn	SB	50 - 5,000	232	244	272
Mercury as Hg	0.1	0.001 - 0.2	0.2	0.028	0.093
Nickel as Ni	13 or SB	0.5 - 25	13.2	12.9	11.7
Potassium as K	SB	8,500 - 43,000	958	822	1280
Selenium as Se	2 or SB	0.1 - 3.9	<0.50	<0.47	<0.47
Silver as Ag	SB	NS	<0.12	<0.11	<0.11
Sodium as Na	SB	6,000 - 8,000	194	53.8	620
Thallium as Tl	SB	NS	<0.23	<0.22	<0.22
Vanadium as V	150 or SB	1 - 200	15.9	15.5	17.5
Zinc as Zn	20 or SB	9 - 50	347	64.1	57.1

Notes:

(1) NYSDEC Recommended Soil Cleanup Objectives (RSCO), Technical and Administrative Guidance Memorandum (TAGM) #4046, 12/00

** - New York State Background Concentration

SB - Site Background

NS - No Standard

*** - Background levels for lead vary

Bold - indicates exceedance of the NYSDEC Cleanup Objective

Bold /Highlighted - indicates exceedance of both the NYSDEC Cleanup Objective and the Eastern USA Background Concentrations

TABLE 5
GROUNDWATER ANALYTICAL RESULTS FOR
VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8260

11-06 Broadway - Astoria, New York

Compound	NYSDEC Groundwater Standards**	GP-01 (GW) 1/23/2009	GP-02 (GW) 1/23/2009	GP-03 (GW) 1/23/2009	GP-07 (GW) 1/23/2009
Volatile Organic Compounds by 8260 - ug/L					
1112Tetrachloroethane	5	<0.86	<8.60	<0.86	<0.86
111 Trichloroethane	5	<0.95	<9.50	<0.95	<0.95
1122Tetrachloroethane	5	<0.75	<7.50	<0.75	<0.75
112 Trichloroethane	1	<0.90	<9.00	<0.90	<0.90
112 Trichloro-122 trifluoroethane	5	<0.88	<8.80	<0.88	<0.88
1.1 Dichloroethane	4	<1.01	<10.1	<1.01	<1.01
1.1 Dichloroethene	5	<0.93	<9.30	<0.93	<0.93
1.1-Dichloropropene	5	<0.80	<8.00	<0.80	<0.80
123-Trichlorobenzene	5	<0.62	<6.20	<0.62	<0.62
123-Trichloropropane	0.04	<0.78	<7.80	<0.78	<0.78
1245 Tetramethylbenzene	5	<0.78	111	<0.78	<0.78
124-Trichlorobenzene (v)	5	<0.67	<6.70	<0.67	<0.67
124-Trimethylbenzene	5	<0.84	<8.40	<0.84	<0.84
12 Dibromo 3 chloropropane	0.04	<0.75	<7.50	<0.75	<0.75
1.2 Dibromoethane	NS	<0.78	<7.80	<0.78	<0.78
1.2 Dichlorobenzene (v)	3	<0.80	<8.00	<0.80	<0.80
1.2 Dichloroethane	0.6	<0.97	<9.70	<0.97	<0.97
1.2 Dichloropropane	1	<0.89	<8.90	<0.89	<0.89
135-Trimethylbenzene	5	<0.82	<8.20	<0.82	<0.82
1.3 Dichlorobenzene (v)	3	<0.77	<7.70	<0.77	<0.77
1.3-Dichloropropane	5	<0.83	<8.30	<0.83	<0.83
1.4 Dichlorobenzene (v)	3	<0.78	<7.80	<0.78	<0.78
2.2-Dichloropropane	5	<0.87	<8.70	<0.87	<0.87
2-Butanone	NS	<0.76	<7.60	<0.76	<0.76
2-Chloroethyl vinyl ether	NS	<1.42	<14.2	<1.42	<1.42
2-Chlorotoluene	5	<0.83	<8.30	<0.83	<0.83
2-Hexanone	50*	<0.61	<6.10	<0.61	<0.61
4-Chlorotoluene	5	<0.78	<7.80	<0.78	<0.78
4-Isopropyltoluene	5	<0.81	<8.10	<0.81	<0.81
4-Methyl-2-pentanone	NS	<0.86	<8.60	<0.86	<0.86
Acetone	50*	<1.16	<11.6	<1.16	<1.16
Acrylonitrile	5	<3.78	<37.8	<3.78	<3.78
Benzene	1	<0.88	<8.80	<0.88	<0.88
Bromobenzene	5	<0.80	<8.00	<0.80	<0.80
Bromochloromethane	5	<0.91	<9.10	<0.91	<0.91
Bromodichloromethane	50*	<0.89	<8.90	<0.89	<0.89
Bromoform	50*	<0.81	<8.10	<0.81	<0.81
Bromomethane	5	<1.02	<10.2	<1.02	<1.02
c-1,2-Dichloroethene	5	<0.89	<8.90	<0.89	6.32
c-1,3Dichloropropene	0.4	<0.87	<8.70	<0.87	<0.87
Carbon Disulfide	60***	<0.82	<8.20	<0.82	0.98
Carbon Tetrachloride	5	<0.90	<9.00	<0.90	<0.90
Chlorobenzene	5	<0.86	<8.60	<0.86	<0.86
Chlorodifluoromethane	NS	<0.93	<9.30	<0.93	<0.93
Chloroethane	5	<1.44	<14.4	<1.44	<1.44
Chloroform	7	<0.97	<9.70	<0.97	<0.97
Chloromethane	5	<0.79	<7.90	<0.79	<0.79
Dibromochloromethane	50	<0.83	<8.30	<0.83	<0.83
Dibromomethane	5	<0.91	<9.10	<0.91	<0.91
Dichlorodifluoromethane	5	<0.80	<8.00	<0.80	<0.80
Ethyl Benzene	5	<0.89	<8.90	<0.89	<0.89
Hexachlorobutadiene	0.5	<0.79	<7.90	<0.79	<0.79
Isopropylbenzene	5	<0.86	11.6	<0.86	<0.86
m + p Xylene	5	<1.74	<17.4	<1.74	<1.74
ter. ButylMethylEther	10	<0.88	<8.80	1.73	4.99
Methylene Chloride	5	<1.08	<10.8	<1.08	<1.08
Naphthalene(v)	10*	<0.83	8.92	<0.83	<0.83
n-Butylbenzene	5	<0.81	17.2	<0.81	<0.81
n-Propylbenzene	5	<0.61	<6.10	<0.61	<0.61
o Xylene	5	<0.85	<8.50	<0.85	<0.85
p Diethylbenzene	NS	<0.77	14.5	<0.77	<0.77
p-Ethyltoluene	NS	<0.81	<8.10	<0.81	<0.81
sec-Butylbenzene	5	<0.78	15.1	<0.78	<0.78
Styrene	5	<0.81	<8.10	<0.81	<0.81
t-1,2-Dichloroethene	5	<0.95	<9.50	<0.95	<0.95
t-1,3Dichloropropene	0.4 ⁽¹⁾	<0.79	<7.90	<0.79	<0.79
TAME	NS	<0.86	<8.60	<0.86	<0.86
tert-Butylbenzene	5	<0.85	<8.50	<0.85	<0.85
t-Butyl alcohol	NS	<8.10	<81.0	<8.10	<8.10
Tetrachloroethene	5	<0.84	<8.40	<0.84	9.04
Toluene	5	<1.08	<10.8	<1.08	<1.08
Trichloroethylene	5	<0.94	<9.40	<0.94	29.4
Trichlorofluoromethane	5	<1.00	<10.0	<1.00	<1.00
Vinyl Chloride	2	<0.82	<8.20	<0.82	<0.82

Notes:

** - NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998

*** - NYSDEC Ambient Water Quality Standards and Guidance Values, Addendum April 2000

* - Guidance Value

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

⁽¹⁾ Applies to sum of cis and trans 1,3

TABLE 6
GROUNDWATER ANALYTICAL RESULTS FOR
PESTICIDES AND PCB's
EPA METHOD 8081/8082

11-06 Broadway - Astoria, New York

Compound	NYSDEC Groundwater Standards**	GP-01 (GW) 1/23/2009	GP-02 (GW) 1/23/2009	GP-03 (GW) 1/23/2009
Pesticides and PCB's by 8081/8082 - ug/L				
Aroclor 1016	.09*	<0.40	<0.40	<0.40
Aroclor 1221	.09*	<0.15	<0.15	<0.15
Aroclor 1232	.09*	<0.55	<0.55	<0.55
Aroclor 1242	.09*	<0.55	<0.55	<0.55
Aroclor 1248	.09*	<0.45	<0.45	<0.45
Aroclor 1254	.09*	<0.20	<0.20	<0.20
Aroclor 1260	.09*	<0.40	<0.40	<0.40
p,p-DDD	0.3	<0.0065	<0.0065	<0.0065
p,p-DDE	0.2	<0.0075	<0.0075	<0.0075
p,p-DDT	0.2	<0.0070	<0.0070	<0.0070
Aldrin	ND	<0.0055	<0.0055	<0.0055
a BHC	0.01	<0.0046	<0.0046	<0.0046
alpha-Chlordane	NS	<0.0060	<0.0060	<0.0060
b BHC	0.04	<0.0075	<0.0075	<0.0075
Chlordane	0.5	<0.60	<0.60	<0.60
d BHC	0.04	<0.0065	<0.0065	<0.0065
Dieldrin	0.004	<0.0055	<0.0055	<0.0055
Endosulfan 1	NS	<0.0065	<0.0065	<0.0065
Endosulfan 2	NS	<0.0075	<0.0075	<0.0075
Endosulfan Sulfate	NS	<0.0070	<0.0070	<0.0070
Endrin	ND	<0.0070	<0.0070	<0.0070
Endrin Aldehyde	5	<0.0050	<0.0050	<0.0050
Endrin ketone	5	<0.0070	<0.0070	<0.0070
gamma-BHC (Lindane)	NS	<0.0044	<0.0044	<0.0044
gamma-Chlordane	0.1	<0.0065	<0.0065	<0.0065
Heptachlor	0.04	<0.0060	<0.0060	<0.0060
Heptachlor Epoxide	0.03	<0.0065	<0.0065	<0.0065
Methoxychlor	35	<0.0070	<0.0070	<0.0070
Toxaphene	0.06	<1.95	<1.95	<1.95

Notes:

** - NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998

* - Guidance Value

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7
GROUNDWATER ANALYTICAL RESULTS FOR
SEMI-VOLATILE ORGANIC COMPOUNDS
EPA METHOD 8270

11-06 Broadway - Astoria, New York

Compound	NYSDEC Groundwater Standards**	GP-01 (GW) 1/23/2009	GP-02 (GW) 1/23/2009	GP-03 (GW) 1/23/2009
Semi-Volatile Organic Compounds by 8270 - ug/L				
124-Trichlorobenzene (sv)	5	<4.60	<4.60	<4.60
1,2 Dichlorobenzene(sv)	3 ⁽¹⁾	<3.55	<3.55	<3.55
1,3 Dichlorobenzene(sv)	3	<4.10	<4.10	<4.10
1,4 Dichlorobenzene(sv)	3	<3.70	<3.70	<3.70
2,4-Dinitrotoluene	5	<3.10	<3.10	<3.10
2,6-Dinitrotoluene	5	<4.90	<4.90	<4.90
2-Chloronaphthalene	10	<4.60	<4.60	<4.60
2-Methylnaphthalene	NS	<4.10	436	<4.10
2-Nitroaniline	5	<3.85	<3.85	<3.85
3,3'-Dichlorobenzidine	5	<3.40	<3.40	<3.40
3-Nitroaniline	5	<3.00	<3.00	<3.00
4-Bromophenyl phenyl ether	NS	<4.25	<4.25	<4.25
4-Chloroaniline	5	<2.35	<2.35	<2.35
4-Chlorophenyl phenyl ether	NS	<4.60	<4.60	<4.60
4-Nitroaniline	5	<5.35	<5.35	<5.35
Acenaphthene	20	<5.10	22.1	<5.10
Acenaphthylene	20	<4.65	<4.65	<4.65
Anthracene	50*	<4.20	24.5	<4.20
Benz(a)anthracene	0.002	<5.15	22.2	<5.15
Benzo(a)pyrene	ND	<4.55	14.2	<4.55
Benzo(b)fluoranthene	0.002	<4.60	12.6	<4.60
Benzo(ghi)perylene	NS	<5.25	6.63	<5.25
Benzo(k)fluoranthene	0.002	<5.20	13.1	<5.20
Benzoic acid	NS	<51.5	<51.5	<51.5
Benzyl alcohol	NS	<2.40	<2.40	<2.40
Bis(2-chloroethoxy)methane	5	<4.75	<4.75	<4.75
Bis(2-chloroethyl)ether	1	<2.85	<2.85	<2.85
Bis(2-chloroisopropyl)ether	NS	<3.85	<3.85	<3.85
Bis(2-ethylhexyl)phthalate	5	<7.20	8.39	8.75
BenzylButylPhthalate	50	<6.65	<6.65	<6.65
Carbazole	NS	<5.40	<5.40	<5.40
Chrysene	0.002	<4.75	22.4	<4.75
Dibenzo(a,h)anthracene	50	<4.85	<4.85	6.14
Dibenzofuran	NS	<5.55	<5.55	<5.55
Diethyl Phthalate	50	<4.35	<4.35	<4.35
Dimethyl Phthalate	50	<4.00	22.9	<4.00
Di-n-Butyl Phthalate	NS	11.9	6.03	9.78
Di-n-octyl Phthalate	NS	<5.10	<5.10	<5.10
Fluoranthene	50	<4.30	67.2	<4.30
Fluorene	50	<4.55	46	<4.55
Hexachlorobenzene	0.04	<3.65	<3.65	<3.65
Hexachlorobutadiene	0.5	<5.25	<5.25	<5.25
Hexachlorocyclopentadiene	5	<1.90	<1.90	<1.90
Hexachloroethane	5	<4.95	<4.95	<4.95
Indeno(1,2,3-cd)pyrene	0.002	<4.75	6.56	<4.75
Isophorone	50	<3.50	<3.50	<3.50
Naphthalene(sv)	10	<3.70	<3.70	<3.70
Nitrobenzene	0.4	<5.50	<5.50	<5.50
N-Nitrosodi-n-propylamine	50	<4.35	<4.35	<4.35
N-Nitrosodiphenylamine	50*	<4.55	<4.55	<4.55
Phenanthrene	50	<4.50	57.2	<4.50
Pyrene	50	<5.05	71.5	<5.05
Pyridine	50*	<1.85	<1.85	<1.85

Notes:

** - NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998

* - Guidance Value

J - Indicates estimated concentration

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

⁽¹⁾ Applies to each isomer (1,2 - 1,3 and 1,4) individually

TABLE 8
GROUNDWATER ANALYTICAL RESULTS FOR
METALS

11-06 Broadway - Astoria, New York

Compound	NYSDEC Groundwater Standards**	GP-01 (GW) 1/23/2009		GP-02 (GW) 1/23/2009		GP-03 (GW) 1/23/2009	
		Total	Dissolved	Total	Dissolved	Total	Dissolved
Priority Pollutant Metals mg/L							
Aluminum as Al	NS	<0.013	<0.013	28.8	6.32	11.7	2.12
Antimony as Sb	0.003	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Arsenic as As	0.025	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Barium as Ba	1	0.15	0.094	0.56	0.29	0.18	0.098
Beryllium as Be	0.003	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cadmium as Cd	0.005	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Calcium as Ca	NS	442	439	466	446	240	204
Chromium as Cr	0.05	0.036	0.014	0.062	0.02	0.029	<0.0016
Cobalt as Co	NS	0.029	0.022	0.034	0.011	0.013	0.0065
Copper as Cu	0.2	0.052	0.011	0.19	<0.0029	0.039	0.014
Iron as Fe	0.5	1210	1210	96.6	61.1	18.2	2.68
Lead as Pb	0.025	0.16	0.11	0.71	0.089	0.064	0.029
Magnesium as Mg	35	221	209	44.1	37.6	36.3	33.5
Manganese as Mn	0.3	14.9	15	2.72	2.5	1.65	1.45
Mercury as Hg	0.0007	0.0004	0.00026	0.0013	0.00026	0.00041	0.000096
Nickel as Ni	0.1	0.03	<0.00050	0.2	0.025	0.023	<0.00050
Potassium as K	NS	107	108	25.2	22.8	25.4	23.8
Selenium as Se	0.01	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
Silver as Ag	0.05	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Sodium as Na	20	2710	2940	69.2	67.9	199	157
Thallium as Tl	0.0005	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Vanadium as V	NS	<0.00050	<0.00050	0.057	0.025	0.03	0.0083
Zinc as Zn	2	1.03	0.96	29.4	23.2	0.068	0.043

Notes:

** - NYSDEC Ambient Water Quality Standards and Guidance Values 6/1998

* - Guidance Value

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Figures



630 JOHNSON AVE. • SUITE 7
BOHEMIA, NY • 11716-2618
PH: (631)589-6353 • FX: (631)589-8705
E-MAIL: INFO@PWGROSSER.COM

CONSULTANTS

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REVISION	DATE	INITIAL	COMMENTS
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PROJECT: SKL0901	APPROVED BY: PWG
DESIGNED BY: DE	DATE: 1/30/09
DRAWN BY: LLG	SCALE: AS SHOWN

SHEET TITLE

SITE PLAN

11-06 BROADWAY
ASTORIA, NY

FIGURE NO

1

SHEET

OF

CUT OFF PIPES

AST -

OFFICE

BRAKE
ROOM

BATHROOM

OFFICE

BATHROOM

AST

AIR
COMPRESSOR
ROOM

PATCH

GP-01

STEEL PILES

LIMO PARKING

JSF
IRON WORKS

ATHENIAN
STEEL CORP

GP-02
⊗

DEBRIS

LEGEND

METAL ANAMOLY

GEOPROBE SAMPLE LOCATION

CAR LIFT

SITE PLAN

NOT TO SCALE

\\projects S-Z\SKL\0901\CAD\SITE PLAN.dwg

Appendix A

GPR
MAGNETICS
ELECTROMAGNETICS
SEISMICS
RESISTIVITY
UTILITY LOCATION
UXO DETECTION
BOREHOLE CAMERA
STAFF SUPPORT

January 26, 2009

Mr. Zeb Youngman

P.W. Grosser Consulting, Inc.
630 Johnson Avenue - Suite 7
Bohemia, New York 11716

Dear Mr. Youngman:

This letter summarizes the geophysical investigation conducted by NAEVA Geophysics on January 23, 2009, at 11-06 Broadway in Queens, New York. The purpose of this investigation was to search interior portions of the property for evidence of undocumented underground storage tanks (USTs). The property was sub-divided into four business referred to by the PW Grosser on-site representative as the Taxi Repair shop, the Auto Repair shop, the JSF Iron Works, and the Athenian Steel Corporation. Our investigation was limited to accessible portions of the floor area in each business. Areas covered by stored materials or parked vehicles could not be investigated.

NAEVA investigated accessible areas in each business using a Fisher TW-6 hand-held metal detector and ground penetrating radar (GPR). The Taxi Repair shop was the only interior whose floor was not underlain with reinforced concrete. Because interference from steel reinforcement prevents the use of the TW-6, GPR was the primary instrument utilized for UST detection in the other three businesses. It should be noted that the presence of concrete pavement, especially when reinforced, could hinder the effectiveness of the GPR. The depth of penetration through the reinforced concrete was limited to ~3feet, which may have not been sufficient enough to detect USTs if present.

Although no conclusive evidence for the presence of USTs was detected, two metal detector anomalies were located in the Taxi Repair shop and a non-reinforced concrete area was detected in the Auto Repair shop and in the JSF Iron Works. GPR profiles collected over each identified area did not aid in characterizing source of the anomalies.

Taxi Repair shop

The anomaly located to the east of the car lift was irregular shaped and the anomaly inside the painting room was rectangular, surrounded by a metal ring on the surface.

Auto Repair shop

The ground cover of the area delineated as non-reinforced concrete was visibly different from the surrounding concrete. An attempt was made to trace two cut pipes on the exterior southwest corner of the Auto Repair shop with no success in identifying the lines. The pipe farthest from the building gave two signals: one was traced to a termination point a few feet into the JSF Iron Works yard. The other appeared to terminate at a reinforced patch in the sidewalk a few feet away. GPR did not detect the presence of a UST at the terminations points. The other pipe was not detectable.

JSF Works

A non-reinforced concrete area was detected near the center of the shop.

MARYLAND
4707 Benson Ave.
Suite 104
Baltimore
Maryland 21227
(410) 536-7600
(410) 536-7602 Fax

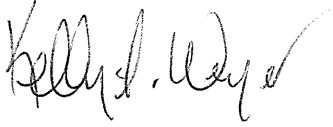
NEW YORK
50 N. Harrison Ave.
Suite 11
Congers
New York 10920
(845) 268-1800
(845) 268-1802 Fax

VIRGINIA
P.O. Box 7325
Charlottesville
Virginia 22906
(434) 978-3187
(434) 973-9791 Fax

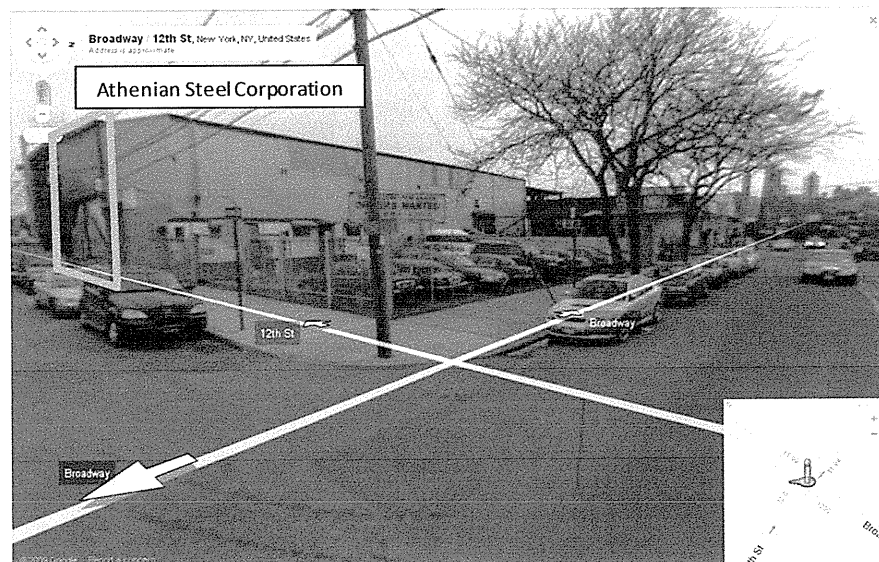
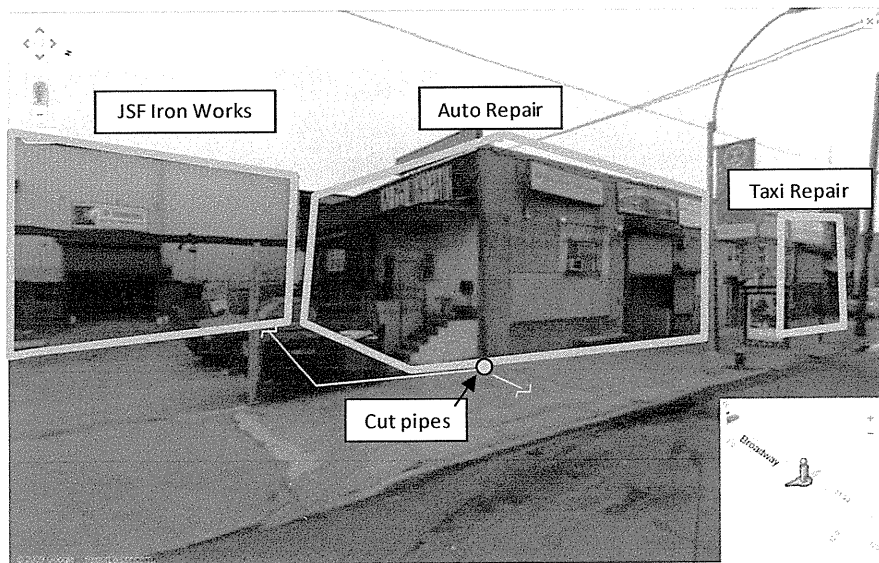
Please note that NAEVA did not perform a utility markout as part of this investigation. As always, we recommend you exercise caution when excavating near any detected features.

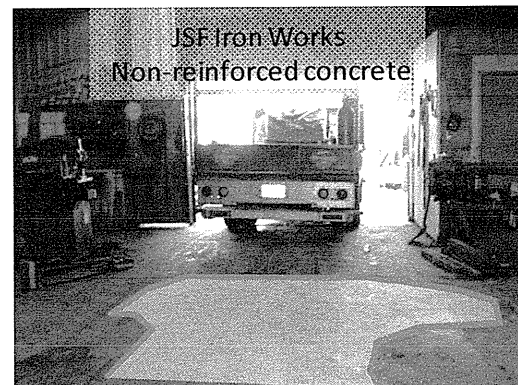
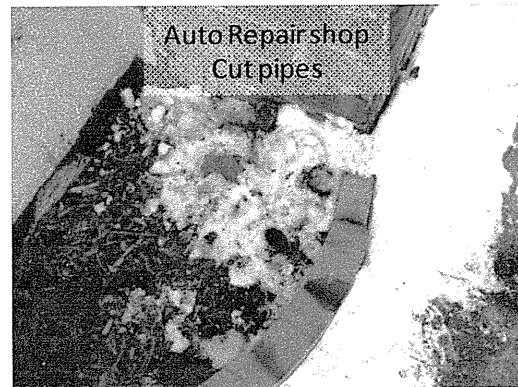
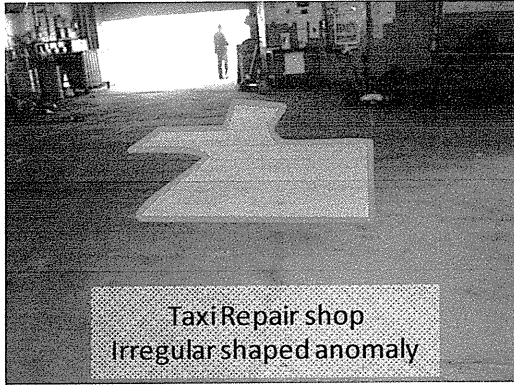
Thank you for the opportunity to work on this project. We look forward to providing subsurface locating services for you in the future. Please contact me with any questions or concerns.

Sincerely,

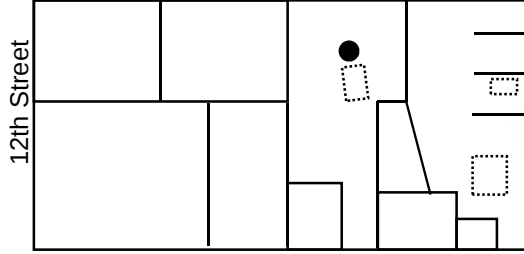
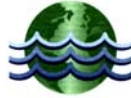


Kelly A. Weyer
Geologist: Project Manager
NAEVA Geophysics, Inc.





Appendix B

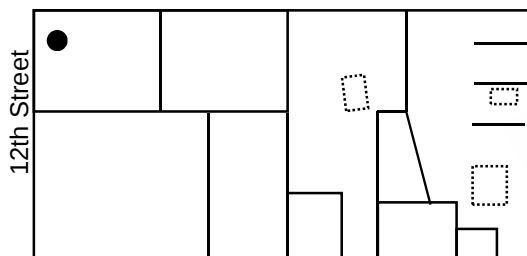


Broadway

Approximate borehole locations at site

Boring # GP-01	MW#	Page 1	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	12'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 09:49		DATE: 1/23/2009	
COMPLETION TIME: 11:20		DATE: 1/23/2009	
BACKFILL TIME: 11:22		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2	0-4': 1' Concrete. 1' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 8.6 ppm. (No odor)	
4-8'	4	3.5	4-6': 0.5' Dry, poorly graded brown sand with silt, (SP-SM) 1' Concrete. 6-8': 2' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 20.1 ppm. (No odor) PID = 39.5 ppm. (No odor)	
8-12'	4	2	8-10': 1' Dry, poorly graded dark brown sand. (SP) 10-12': 1' Wet, poorly graded black sand with silt. (SP-SM)	PID = 7.5 ppm. (No odor) PID = 26.1 ppm. (No odor)	
				Soil sample collected from 8-10' at 10:20. Groundwater sample collected from 10-15' at 11:20.	

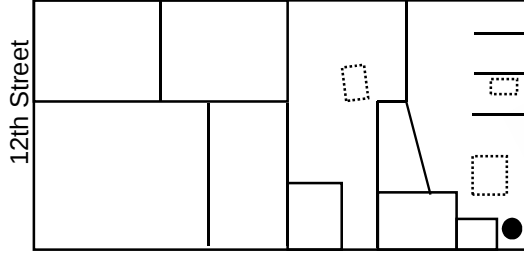
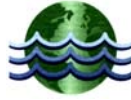


Broadway

Approximate borehole locations at site

Boring # GP-02	MW#	Page 2	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	12'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 11:36		DATE: 1/23/2009	
COMPLETION TIME: 12:36		DATE: 1/23/2009	
BACKFILL TIME: 12:38		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2.5	0-2': 0.5' Concrete. 0.75' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 1.1 ppm. (No odor)	
			1' Moist, poorly graded black sand with silt. (SP-SM) 0.25' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 9.5 ppm. (No odor)	
4-8'	4	1	4-8': 1' Dry, poorly graded brown sand with silt. (SP-SM) Rock pieces.	PID = 45.6 ppm. (No odor)	
				Soil sample collected from 4-8' at 11:55.	
8-12'	4	3	8-10': 1.5' Wet, silty dark brown sand. (SM)	PID = 149 ppm. (Solvent odor)	
			10-12': 1' Wet silty dark brown sand. (SM) 0.5' Wet, clayey dark brown sand. (SC)	PID = 71.5 ppm. (Solvent odor)	
				Soil sample collected from 8-10' at 11:56. Groundwater sample collected from 10-15' at 12:36.	

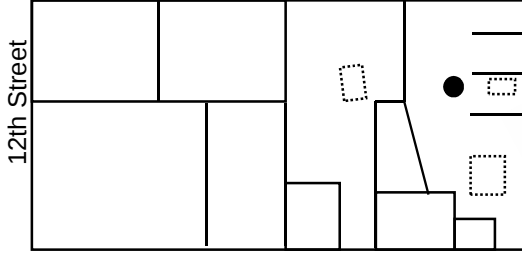
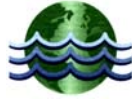


Broadway

Approximate borehole locations at site

Boring # GP-03	MW#	Page 3	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	16'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 12:45		DATE: 1/23/2009	
COMPLETION TIME: 15:01		DATE: 1/23/2009	
BACKFILL TIME: 15:05		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2	0-4': 1.5' Dry, poorly graded dark brown sand with silt. (SP-SM) 0.5' Moist, poorly graded brown sand with silt. (SP-SM)	PID = 14.9 ppm. (No odor)	
4-8'	4	2	4-8': 1.5' Dry, poorly graded dark brown sand with silt. (SP-SM) 0.5' Moist, poorly graded brown sand with silt. (SP-SM)	PID = 29.3 ppm. (No odor)	
				Soil sample collected from 4-8' at 13:12.	
8-12'	4	1.5	8-12": 1.5' Moist, clayey brown sand. (SC)	PID = 7.5 ppm. (No odor)	
12-16'	4	3	12-14': 1.5' Wet, silty brown sand. (SM)	PID = 7.3 ppm. (No odor)	
			14-16': 1.5' Wet, silty brown sand. (SM)	PID = 7.3 ppm. (No odor)	
				Groundwater sample collected from 10-15' at 15:01.	

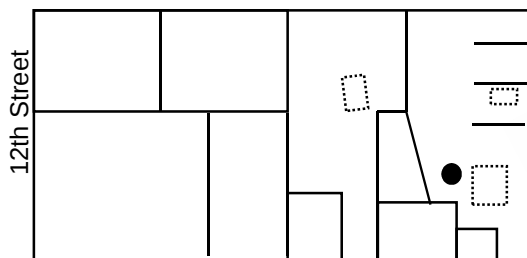


Broadway

Approximate borehole locations at site

Boring # GP-04	MW#	Page 4	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	16'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 13:19		DATE: 1/23/2009	
COMPLETION TIME: 13:45		DATE: 1/23/2009	
BACKFILL TIME: 13:46		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	3	0-2': 0.5' Concrete. 1' Dry, poorly graded brown sand with silt. (SP-SM) 2-4': 1.5' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 6.1 ppm. (No odor) PID = 7.0 ppm. (No odor)	
4-8'	4	3	4-6': 1.5' Dry, poorly graded brown sand with silt. (SP-SM) 6-8': 1' Dry, poorly graded brown sand with silt. (SP-SM) Crushed red brick. 0.5' Moist, clayey brown sand. (SC)	PID = 6.5 ppm. (No odor) PID = 14.6 ppm. (No odor)	
8-12'	4	3	8-10': 1.5' Moist, poorly graded brown sand with silt. (SP-SM) 10-12': 1.5' Moist, poorly graded dark brown sand with silt. (SP-SM)	PID = 24.1 ppm. (No odor) PID = 19.9 ppm. (No odor)	
12-16'	4	4	12-14': 2' Moist, poorly graded brown sand with silt. (SP-SM) 14-16': 2' Wet, clayey black sand. (SC)	PID = 33.8 ppm. (No odor) PID = 42.1 ppm. (No odor)	

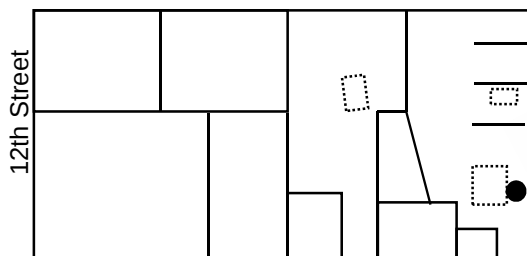


Broadway

Approximate borehole locations at site

Boring # GP-05	MW#	Page 5	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	12'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 13:46		DATE: 1/23/2009	
COMPLETION TIME: 13:57		DATE: 1/23/2009	
BACKFILL TIME: 13:58		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2	0-4': 0.5' Concrete. 1.5' Dry, poorly graded dark brown sand with silt. (SP-SM)	PID = 25.3 ppm. (No odor)	
4-8'	4	1.5	4-8': 1.5' Dry, poorly graded brown sand with silt. (SP-SM)	PID = 6.0 ppm. (No odor)	
				Soil sample collected from 4-8' at 13:57.	
8-12'	4	2	8-12': 2' Wet, silty black sand. (SM)	PID = 4.2 ppm. (Organic odor)	

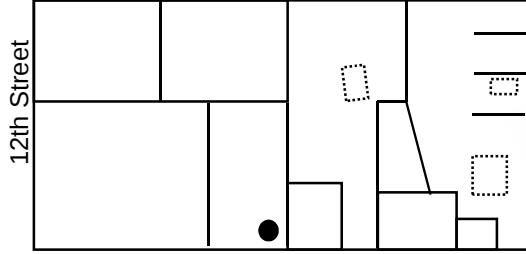
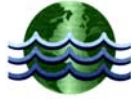


Broadway

Approximate borehole locations at site

Boring # GP-06	MW#	Page 6	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	16'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 13:58		DATE: 1/23/2009	
COMPLETION TIME: 14:19		DATE: 1/23/2009	
BACKFILL TIME: 14:22		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2	0-4': 0.5' Concrete. 0.5' Dry, poorly graded dark brown sand with silt. (SP-SM) 0.5' Concrete. 0.5' Dry, poorly graded dark brown sand with silt. (SP-SM)	PID = 10.1 ppm. (No odor)	
4-8'	4	2.5	4-6': 1.25' Dry, poorly graded light brown sand. (SP) Crushed rock. 6-8': 1.25' Dry, poorly graded light brown sand. (SP) Crushed rock.	PID = 23.1 ppm. (No odor) PID = 30.8 ppm. (No odor)	
8-12'	4	0.5	8-12': 0.5' Moist, poorly graded light brown sand. (SP) Crushed rock.	PID = 5.8 ppm. (No odor)	
12-16'	4	4	12-14': 2' Wet, clayey black sand. (SC) 14-16': 2' Wet, clayey black sand. (SC)	PID = 7.1 ppm. (Organic odor) PID = 6.0 ppm. (Organic odor)	



Broadway

Approximate borehole locations at site

Boring # GP-07	MW#	Page 7	of 7
PROJECT: 11-06 Broadway - Astoria - NY			
JOB # SKL0901			
LOGGED BY:	DE	PRJ. MNGR.:	ZY
DRILLING CONTRACTOR: LVS Inc..			
DRILL METHOD: Geoprobe			
DRILLER: Manny & Helper			
Borehole diameter/drill bit type:		total depth	12'
Macrocore (2" diameter)		elevation	NA
HAMMER WT: NA		DROP: NA	
START TIME: 14:35		DATE: 1/23/2009	
COMPLETION TIME: 15:21		DATE: 1/23/2009	
BACKFILL TIME: 15:25		DATE: 1/23/2009	

Sample Depth	Advance (ft)	Recovered (ft)	Soil Description Unified Soil Classification System	Notes	Casing depth: NA Screen depth: NA
0-4'	4	2	0-4': 2' Dry, poorly graded gray sand with silt. (SP-SM)	PID = 38.3 ppm. (Solvent odor)	
				Soil sample collected from 0-4' at 14:53.	
4-8'	4	0.1	4-8': 0.1' Moist, poorly graded brown sand with silt. (SP-SM)	PID = 12.6 ppm. (Solvent odor)	
8-12'	4	1	8-12': 1' Wet, poorly graded dark brown sand with silt. (SP-SM)	PID = 100 ppm. (Solvent odor)	
				Soil sample collected from 8-12' at 14:53. Groundwater sample collected from 10-15' at 15:21.	

Appendix C

Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Laboratory Identifier: 0901338

Received: 01/23/2009 17:15

Sampled by: Derek Ersbak

Client: PW Grosser Consulting Engineers PC

630 Johnson Avenue - Suite 7
Bohemia,
NY 11716-2618

Project: SKL0901

11-06 Broadway
Astoria,
NY

Manager: Zeb Youngman

Respectfully submitted,



Technical Director

NYS Lab ID # 10969

NJ Cert. # 73812

CT Cert. # PH0645

MA Cert. # NY061

PA Cert. #002



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

STARS Volatile Compounds by SW 846 8260

Sample: 0901338-4

Client Sample ID: GP-04 (6-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 13:45

% Solid: 79.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
95-63-6	1,2,4-Trimethylbenzene	B2813-7974	0.47	0.47	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7974	0.55	0.55	ug/Kg	U
71-43-2	Benzene	B2813-7974	0.67	0.67	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7974	0.66	0.66	ug/Kg	U
98-82-8	Cumene	B2813-7974	0.55	0.55	ug/Kg	U
108-38-3	m,p-Xylene	B2813-7974	1.13	1.13	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7974	0.66	0.66	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7974	0.60	0.60	ug/Kg	U
103-65-1	n-Propylbenzene	B2813-7974	0.58	0.58	ug/Kg	U
91-20-3	Naphthalene	B2813-7974	0.57	0.57	ug/Kg	U
95-47-6	o-Xylene	B2813-7974	0.49	0.49	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7974	0.59	0.59	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7974	0.57	0.57	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7974	0.67	0.67	ug/Kg	U
108-88-3	Toluene	B2813-7974	0.60	0.60	ug/Kg	U
1330-20-7	Xylenes (Total)	B2813-7974	1.13	1.13	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7974	113.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7974	93.3 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7974	111.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7974	105.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

STARS Volatile Compounds by SW 846 8260

Sample: 0901338-5

Client Sample ID: GP-05 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 13:57

% Solid: 84.3%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
95-63-6	1,2,4-Trimethylbenzene	B2813-7975	0.44	0.44	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7975	0.52	0.52	ug/Kg	U
71-43-2	Benzene	B2813-7975	0.63	0.63	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7975	0.62	0.62	ug/Kg	U
98-82-8	Cumene	B2813-7975	0.52	0.52	ug/Kg	U
108-38-3	m,p-Xylene	B2813-7975	1.07	1.07	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7975	0.62	0.62	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7975	0.57	0.57	ug/Kg	U
103-65-1	n-Propylbenzene	B2813-7975	0.55	0.55	ug/Kg	U
91-20-3	Naphthalene	B2813-7975	0.54	0.54	ug/Kg	U
95-47-6	o-Xylene	B2813-7975	0.46	0.46	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7975	0.56	0.56	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7975	0.54	0.54	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7975	0.63	0.63	ug/Kg	U
108-88-3	Toluene	B2813-7975	0.57	0.57	ug/Kg	U
1330-20-7	Xylenes (Total)	B2813-7975	1.07	1.07	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7975	115.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7975	90.5 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7975	116.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7975	105.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

STARS Volatile Compounds by SW 846 8260

Sample: 0901338-6

Client Sample ID: GP-06 (6-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:14

% Solid: 90.1%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
95-63-6	1,2,4-Trimethylbenzene	B2813-7976	0.41	0.41	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7976	0.49	0.49	ug/Kg	U
71-43-2	Benzene	B2813-7976	0.59	0.59	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7976	0.58	0.58	ug/Kg	U
98-82-8	Cumene	B2813-7976	0.49	0.49	ug/Kg	U
108-38-3	m,p-Xylene	B2813-7976	1.00	1.00	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7976	0.58	0.58	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7976	0.53	0.53	ug/Kg	U
103-65-1	n-Propylbenzene	B2813-7976	0.51	0.51	ug/Kg	U
91-20-3	Naphthalene	B2813-7976	0.50	0.50	ug/Kg	U
95-47-6	o-Xylene	B2813-7976	0.43	0.43	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7976	0.52	0.52	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7976	0.50	0.50	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7976	0.59	0.59	ug/Kg	U
108-88-3	Toluene	B2813-7976	0.53	0.53	ug/Kg	U
1330-20-7	Xylenes (Total)	B2813-7976	1.00	1.00	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7976	114.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7976	90.9 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7976	111.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7976	105.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7971	0.53	0.53	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7971	0.60	0.60	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7971	0.70	0.70	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7971	0.73	0.73	ug/Kg	U
76-13-1	Freon 113	B2813-7971	0.60	0.60	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7971	0.66	0.66	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7971	0.43	0.43	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7971	0.61	0.61	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7971	0.56	0.56	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7971	0.82	0.82	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	B2813-7971	0.46	0.46	ug/Kg	U
120-82-1	1,2,4-Trichlorobenzene	B2813-7971	0.39	0.39	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7971	0.43	0.43	ug/Kg	U
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7971	0.53	0.53	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7971	0.68	0.68	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7971	0.55	0.55	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7971	0.67	0.67	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7971	0.68	0.68	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7971	0.51	0.51	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7971	0.61	0.61	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7971	0.60	0.60	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7971	0.56	0.56	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7971	0.68	0.68	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7971	2.58	2.58	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7971	0.74	0.74	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7971	0.61	0.61	ug/Kg	U
591-78-6	2-Hexanone	B2813-7971	2.30	2.30	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7971	0.58	0.58	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7971	0.55	0.55	ug/Kg	U
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7971	2.49	2.49	ug/Kg	U
67-64-1	2-Propanone	B2813-7971	3.02	65.5	ug/Kg	
107-13-1	Acrylonitrile	B2813-7971	8.11	8.11	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7971	0.61	0.61	ug/Kg	U
108-86-1	Bromobenzene	B2813-7971	0.59	0.59	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7971	0.67	0.67	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7971	0.55	0.55	ug/Kg	U
75-25-2	Bromoform	B2813-7971	0.56	0.56	ug/Kg	U
74-83-9	Bromomethane	B2813-7971	0.57	0.57	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7971	0.52	0.52	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7971	0.59	0.59	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7971	0.55	1.63	ug/Kg	J
56-23-5	Carbon tetrachloride	B2813-7971	0.65	0.65	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7971	0.71	0.71	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7971	1.02	1.02	ug/Kg	U
75-00-3	Chloroethane	B2813-7971	0.81	0.81	ug/Kg	U
67-66-3	Chloroform	B2813-7971	0.68	0.68	ug/Kg	U
74-87-3	Chloromethane	B2813-7971	0.58	0.58	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7971	0.53	0.53	ug/Kg	U
74-95-3	Dibromomethane	B2813-7971	0.92	0.92	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7971	0.43	0.43	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7971	0.60	0.60	ug/Kg	U
87-68-3	Hexachlorobutadiene	B2813-7971	0.56	0.56	ug/Kg	U
98-82-8	Cumene	B2813-7971	0.51	0.51	ug/Kg	U
108-38-3	m,p-Xylene	B2813-7971	1.04	1.04	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7971	0.60	0.60	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7971	1.09	1.09	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7971	0.56	0.56	ug/Kg	U
103-65-1	n-Propylbenzene	B2813-7971	0.53	0.53	ug/Kg	U
91-20-3	Naphthalene	B2813-7971	0.52	0.52	ug/Kg	U
95-47-6	o-Xylene	B2813-7971	0.45	0.45	ug/Kg	U
105-05-5	p-Diethylbenzene	B2813-7971	0.53	0.53	ug/Kg	U
622-96-8	p-Ethyltoluene	B2813-7971	0.49	0.49	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7971	0.52	0.52	ug/Kg	U
100-42-5	Styrene	B2813-7971	0.50	0.50	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7971	0.53	0.53	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7971	0.49	0.49	ug/Kg	U
994-05-8	TAME	B2813-7971	0.73	0.73	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7971	0.61	0.61	ug/Kg	U
75-65-0	Tertiary butyl alcohol	B2813-7971	6.25	6.25	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7971	0.52	0.52	ug/Kg	U
108-88-3	Toluene	B2813-7971	0.56	0.91	ug/Kg	J
79-01-6	TCE	B2813-7971	0.57	0.57	ug/Kg	U
75-69-4	Freon 11	B2813-7971	0.65	0.65	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7971	0.79	0.79	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7971	114.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7971	90.7 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7971	114.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7971	102.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7972	0.52	0.52	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7972	0.58	0.58	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7972	0.67	0.67	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7972	0.71	0.71	ug/Kg	U
76-13-1	Freon 113	B2813-7972	0.58	0.58	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7972	0.64	0.64	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7972	0.41	0.41	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7972	0.59	0.59	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7972	0.54	0.54	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7972	0.80	0.80	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	B2813-7972	0.45	33.9	ug/Kg	
120-82-1	1,2,4-Trichlorobenzene	B2813-7972	0.38	0.38	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7972	0.41	0.41	ug/Kg	U
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7972	0.52	0.52	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7972	0.66	0.66	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7972	0.53	0.53	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7972	0.65	0.65	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7972	0.66	0.66	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7972	0.49	0.49	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7972	0.59	0.59	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7972	0.58	0.58	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7972	0.54	0.54	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7972	0.66	0.66	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7972	2.49	2.49	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7972	0.72	0.72	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7972	0.59	0.59	ug/Kg	U
591-78-6	2-Hexanone	B2813-7972	2.22	2.22	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7972	0.56	0.56	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7972	0.53	0.53	ug/Kg	U
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7972	2.41	2.41	ug/Kg	U
67-64-1	2-Propanone	B2813-7972	2.91	63.2	ug/Kg	
107-13-1	Acrylonitrile	B2813-7972	7.83	7.83	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7972	0.59	0.59	ug/Kg	U
108-86-1	Bromobenzene	B2813-7972	0.57	0.57	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7972	0.65	0.65	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7972	0.53	0.53	ug/Kg	U
75-25-2	Bromoform	B2813-7972	0.54	0.54	ug/Kg	U
74-83-9	Bromomethane	B2813-7972	0.55	0.55	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7972	0.50	0.50	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7972	0.57	0.57	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7972	0.53	4.57	ug/Kg	J
56-23-5	Carbon tetrachloride	B2813-7972	0.63	0.63	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7972	0.68	0.68	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7972	0.99	0.99	ug/Kg	U
75-00-3	Chloroethane	B2813-7972	0.78	0.78	ug/Kg	U
67-66-3	Chloroform	B2813-7972	0.66	0.66	ug/Kg	U
74-87-3	Chloromethane	B2813-7972	0.56	0.56	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7972	0.52	0.52	ug/Kg	U
74-95-3	Dibromomethane	B2813-7972	0.88	0.88	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7972	0.41	0.41	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7972	0.58	0.58	ug/Kg	U
87-68-3	Hexachlorobutadiene	B2813-7972	0.54	0.54	ug/Kg	U
98-82-8	Cumene	B2813-7972	0.49	4.60	ug/Kg	J
108-38-3	m,p-Xylene	B2813-7972	1.01	1.01	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7972	0.58	0.58	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7972	1.05	1.05	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7972	0.54	9.46	ug/Kg	
103-65-1	n-Propylbenzene	B2813-7972	0.52	9.11	ug/Kg	
91-20-3	Naphthalene	B2813-7972	0.50	0.50	ug/Kg	U
95-47-6	o-Xylene	B2813-7972	0.44	0.44	ug/Kg	U
105-05-5	p-Diethylbenzene	B2813-7972	0.52	7.62	ug/Kg	
622-96-8	p-Ethyltoluene	B2813-7972	0.47	0.47	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7972	0.50	10.2	ug/Kg	
100-42-5	Styrene	B2813-7972	0.48	0.48	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7972	0.52	0.52	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7972	0.47	0.47	ug/Kg	U
994-05-8	TAME	B2813-7972	0.71	0.71	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7972	0.59	0.59	ug/Kg	U
75-65-0	Tertiary butyl alcohol	B2813-7972	6.04	6.04	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7972	0.50	0.50	ug/Kg	U
108-88-3	Toluene	B2813-7972	0.54	0.98	ug/Kg	J
79-01-6	TCE	B2813-7972	0.55	0.55	ug/Kg	U
75-69-4	Freon 11	B2813-7972	0.63	0.63	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7972	0.76	0.76	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7972	113.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7972	93.0 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7972	115.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7972	103.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7973	0.52	0.52	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7973	0.58	0.58	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7973	0.67	0.67	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7973	0.71	0.71	ug/Kg	U
76-13-1	Freon 113	B2813-7973	0.58	0.58	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7973	0.64	0.64	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7973	0.41	0.41	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7973	0.59	0.59	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7973	0.54	0.54	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7973	0.80	0.80	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	B2813-7973	0.45	0.45	ug/Kg	U
120-82-1	1,2,4-Trichlorobenzene	B2813-7973	0.38	0.38	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7973	0.41	0.41	ug/Kg	U
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7973	0.52	0.52	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7973	0.66	0.66	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7973	0.53	0.53	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7973	0.65	0.65	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7973	0.66	0.66	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7973	0.49	0.49	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7973	0.59	0.59	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7973	0.58	0.58	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7973	0.54	0.54	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7973	0.66	0.66	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7973	2.49	2.49	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7973	0.72	0.72	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7973	0.59	0.59	ug/Kg	U
591-78-6	2-Hexanone	B2813-7973	2.22	2.22	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7973	0.56	0.56	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7973	0.53	0.53	ug/Kg	U
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7973	2.41	2.41	ug/Kg	U
67-64-1	2-Propanone	B2813-7973	2.91	6.11	ug/Kg	J
107-13-1	Acrylonitrile	B2813-7973	7.83	7.83	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7973	0.59	0.59	ug/Kg	U
108-86-1	Bromobenzene	B2813-7973	0.57	0.57	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7973	0.65	0.65	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7973	0.53	0.53	ug/Kg	U
75-25-2	Bromoform	B2813-7973	0.54	0.54	ug/Kg	U
74-83-9	Bromomethane	B2813-7973	0.55	0.55	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7973	0.50	0.50	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7973	0.57	0.57	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7973	0.53	0.53	ug/Kg	U
56-23-5	Carbon tetrachloride	B2813-7973	0.63	0.63	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7973	0.68	0.68	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7973	0.99	0.99	ug/Kg	U
75-00-3	Chloroethane	B2813-7973	0.78	0.78	ug/Kg	U
67-66-3	Chloroform	B2813-7973	0.66	0.66	ug/Kg	U
74-87-3	Chloromethane	B2813-7973	0.56	0.56	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7973	0.52	0.52	ug/Kg	U
74-95-3	Dibromomethane	B2813-7973	0.88	0.88	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7973	0.41	0.41	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7973	0.58	0.58	ug/Kg	U
87-68-3	Hexachlorobutadiene	B2813-7973	0.54	0.54	ug/Kg	U
98-82-8	Cumene	B2813-7973	0.49	0.49	ug/Kg	U
108-38-3	m,p-Xylene	B2813-7973	1.01	1.01	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7973	0.58	0.58	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7973	1.05	1.05	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7973	0.54	0.54	ug/Kg	U
103-65-1	n-Propylbenzene	B2813-7973	0.52	0.52	ug/Kg	U
91-20-3	Naphthalene	B2813-7973	0.50	0.50	ug/Kg	U
95-47-6	o-Xylene	B2813-7973	0.44	0.44	ug/Kg	U
105-05-5	p-Diethylbenzene	B2813-7973	0.52	0.52	ug/Kg	U
622-96-8	p-Ethyltoluene	B2813-7973	0.47	0.47	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7973	0.50	0.50	ug/Kg	U
100-42-5	Styrene	B2813-7973	0.48	0.48	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7973	0.52	0.52	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7973	0.47	0.47	ug/Kg	U
994-05-8	TAME	B2813-7973	0.71	0.71	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7973	0.59	0.59	ug/Kg	U
75-65-0	Tertiary butyl alcohol	B2813-7973	6.04	6.04	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7973	0.50	0.50	ug/Kg	U
108-88-3	Toluene	B2813-7973	0.54	0.54	ug/Kg	U
79-01-6	TCE	B2813-7973	0.55	0.55	ug/Kg	U
75-69-4	Freon 11	B2813-7973	0.63	0.63	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7973	0.76	0.76	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7973	111.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7973	92.0 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7973	107.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7973	104.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-7

Client Sample ID: GP-07 (0-4')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.3%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7977	0.53	0.53	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7977	0.60	0.60	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7977	0.69	0.69	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7977	0.72	0.72	ug/Kg	U
76-13-1	Freon 113	B2813-7977	0.60	0.60	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7977	0.66	0.66	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7977	0.43	0.43	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7977	0.61	0.61	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7977	0.55	0.55	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7977	0.82	0.82	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	B2813-7977	0.46	10.6	ug/Kg	
120-82-1	1,2,4-Trichlorobenzene	B2813-7977	0.39	0.39	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7977	0.43	14.3	ug/Kg	
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7977	0.53	0.53	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7977	0.68	0.68	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7977	0.54	0.54	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7977	0.67	0.67	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7977	0.68	0.68	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7977	0.51	0.51	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7977	0.61	0.61	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7977	0.60	0.60	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7977	0.55	0.55	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7977	0.68	0.68	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7977	2.55	2.55	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7977	0.74	0.74	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7977	0.61	0.61	ug/Kg	U
591-78-6	2-Hexanone	B2813-7977	2.28	2.28	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7977	0.57	0.57	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7977	0.54	1.86	ug/Kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7977	2.47	2.47	ug/Kg	U
67-64-1	2-Propanone	B2813-7977	2.99	110	ug/Kg	
107-13-1	Acrylonitrile	B2813-7977	8.04	8.04	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-7

Client Sample ID: GP-07 (0-4')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.3%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7977	0.61	0.61	ug/Kg	U
108-86-1	Bromobenzene	B2813-7977	0.59	0.59	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7977	0.67	0.67	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7977	0.54	0.54	ug/Kg	U
75-25-2	Bromoform	B2813-7977	0.55	0.55	ug/Kg	U
74-83-9	Bromomethane	B2813-7977	0.56	0.56	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7977	0.52	0.52	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7977	0.59	0.59	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7977	0.54	0.54	ug/Kg	U
56-23-5	Carbon tetrachloride	B2813-7977	0.64	0.64	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7977	0.70	0.70	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7977	1.01	1.01	ug/Kg	U
75-00-3	Chloroethane	B2813-7977	0.81	0.81	ug/Kg	U
67-66-3	Chloroform	B2813-7977	0.68	0.68	ug/Kg	U
74-87-3	Chloromethane	B2813-7977	0.57	0.57	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7977	0.53	0.53	ug/Kg	U
74-95-3	Dibromomethane	B2813-7977	0.91	0.91	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7977	0.43	0.43	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7977	0.60	0.92	ug/Kg	J
87-68-3	Hexachlorobutadiene	B2813-7977	0.55	0.55	ug/Kg	U
98-82-8	Cumene	B2813-7977	0.51	1.55	ug/Kg	J
108-38-3	m,p-Xylene	B2813-7977	1.03	2.81	ug/Kg	J
1634-04-4	Methyl tertiary butyl ether	B2813-7977	0.60	0.60	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7977	1.08	1.08	ug/Kg	U
104-51-8	n-Butylbenzene	B2813-7977	0.55	2.91	ug/Kg	J
103-65-1	n-Propylbenzene	B2813-7977	0.53	3.11	ug/Kg	J
91-20-3	Naphthalene	B2813-7977	0.52	8.25	ug/Kg	
95-47-6	o-Xylene	B2813-7977	0.45	0.45	ug/Kg	U
105-05-5	p-Diethylbenzene	B2813-7977	0.53	3.95	ug/Kg	J
622-96-8	p-Ethyltoluene	B2813-7977	0.48	3.55	ug/Kg	J
135-98-8	sec-Butylbenzene	B2813-7977	0.52	2.29	ug/Kg	J
100-42-5	Styrene	B2813-7977	0.49	0.49	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-7

Client Sample ID: GP-07 (0-4')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.3%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7977	0.53	0.53	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7977	0.48	0.48	ug/Kg	U
994-05-8	TAME	B2813-7977	0.72	0.72	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7977	0.61	0.61	ug/Kg	U
75-65-0	Tertiary butyl alcohol	B2813-7977	6.20	6.20	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7977	0.52	0.52	ug/Kg	U
108-88-3	Toluene	B2813-7977	0.55	0.80	ug/Kg	J
79-01-6	TCE	B2813-7977	0.56	0.56	ug/Kg	U
75-69-4	Freon 11	B2813-7977	0.64	0.64	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7977	0.78	0.78	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7977	113.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7977	94.4 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7977	115.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7977	105.0 %	(86 - 125)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-8

Client Sample ID: GP-07 (8-12')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7978	2.63	2.63	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7978	2.97	2.97	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7978	3.43	3.43	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7978	3.60	3.60	ug/Kg	U
76-13-1	Freon 113	B2813-7978	2.97	2.97	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7978	3.26	3.26	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7978	2.12	2.12	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7978	3.03	3.03	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7978	2.75	2.75	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7978	4.06	4.06	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2979-1550	112	6260	ug/Kg	
120-82-1	1,2,4-Trichlorobenzene	B2813-7978	1.94	1.94	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7978	2.12	63.1	ug/Kg	
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7978	2.63	2.63	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7978	3.37	3.37	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7978	2.69	2.69	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7978	3.32	3.32	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7978	3.37	3.37	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7978	2.52	2.52	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7978	3.03	3.03	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7978	2.97	2.97	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7978	2.75	2.75	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7978	3.37	3.37	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7978	12.7	12.7	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7978	3.66	3.66	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7978	3.03	3.03	ug/Kg	U
591-78-6	2-Hexanone	B2813-7978	11.3	11.3	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7978	2.86	2.86	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7978	2.69	2.69	ug/Kg	U
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7978	12.3	12.3	ug/Kg	U
67-64-1	2-Propanone	B2813-7978	14.9	63.8	ug/Kg	J
107-13-1	Acrylonitrile	B2813-7978	40.0	40.0	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-8

Client Sample ID: GP-07 (8-12')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7978	3.03	3.03	ug/Kg	U
108-86-1	Bromobenzene	B2813-7978	2.92	2.92	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7978	3.32	3.32	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7978	2.69	2.69	ug/Kg	U
75-25-2	Bromoform	B2813-7978	2.75	2.75	ug/Kg	U
74-83-9	Bromomethane	B2813-7978	2.80	2.80	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7978	2.57	2.57	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7978	2.92	2.92	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7978	2.69	2.69	ug/Kg	U
56-23-5	Carbon tetrachloride	B2813-7978	3.20	3.20	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7978	3.49	3.49	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7978	5.03	5.03	ug/Kg	U
75-00-3	Chloroethane	B2813-7978	4.00	4.00	ug/Kg	U
67-66-3	Chloroform	B2813-7978	3.37	3.37	ug/Kg	U
74-87-3	Chloromethane	B2813-7978	2.86	2.86	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7978	2.63	2.63	ug/Kg	U
74-95-3	Dibromomethane	B2813-7978	4.52	4.52	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7978	2.12	2.12	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7978	2.97	2.97	ug/Kg	U
87-68-3	Hexachlorobutadiene	B2813-7978	2.75	2.75	ug/Kg	U
98-82-8	Cumene	A2979-1550	123	836	ug/Kg	
108-38-3	m,p-Xylene	B2813-7978	5.15	5.15	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7978	2.97	2.97	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7978	5.38	5.38	ug/Kg	U
104-51-8	n-Butylbenzene	A2979-1550	119	2020	ug/Kg	
103-65-1	n-Propylbenzene	A2979-1550	116	1550	ug/Kg	
91-20-3	Naphthalene	B2813-7978	2.57	72.2	ug/Kg	
95-47-6	o-Xylene	B2813-7978	2.23	2.23	ug/Kg	U
105-05-5	p-Diethylbenzene	A2979-1550	110	1400	ug/Kg	
622-96-8	p-Ethyltoluene	B2813-7978	2.40	2.40	ug/Kg	U
135-98-8	sec-Butylbenzene	A2979-1550	112	1230	ug/Kg	
100-42-5	Styrene	B2813-7978	2.46	2.46	ug/Kg	U



Environmental Testing Laboratories, Inc.

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02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-8

Client Sample ID: GP-07 (8-12')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 14:53

% Solid: 87.4%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7978	2.63	2.63	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7978	2.40	2.40	ug/Kg	U
994-05-8	TAME	B2813-7978	3.60	3.60	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7978	3.03	121	ug/Kg	
75-65-0	Tertiary butyl alcohol	B2813-7978	30.8	30.8	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7978	2.57	2.57	ug/Kg	U
108-88-3	Toluene	B2813-7978	2.75	2.75	ug/Kg	U
79-01-6	TCE	B2813-7978	2.80	2.80	ug/Kg	U
75-69-4	Freon 11	B2813-7978	3.20	3.20	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7978	3.89	3.89	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7978	120.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7978	95.2 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7978	113.0 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7978	122.0 %	(86 - 125)	
17060-07-0	1,2-DICHLOROETHANE-D4	A2979-1550	107.0 %	(68 - 173)	
460-00-4	4-BROMOFLUOROBENZENE	A2979-1550	120.0 %	(77 - 131)	
4774-33-8	DIBROMOFLUOROMETHANE	A2979-1550	104.0 %	(75 - 159)	
2037-26-5	TOLUENE-D8	A2979-1550	98.2 %	(74 - 136)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-9

Client Sample ID: GP-02 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:56

% Solid: 84.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	B2813-7979	2.72	2.72	ug/Kg	U
71-55-6	1,1,1-Trichloroethane	B2813-7979	3.07	3.07	ug/Kg	U
79-34-5	1,1,2,2-Tetrachloroethane	B2813-7979	3.55	3.55	ug/Kg	U
79-00-5	1,1,2-Trichloroethane	B2813-7979	3.72	3.72	ug/Kg	U
76-13-1	Freon 113	B2813-7979	3.07	3.07	ug/Kg	U
75-34-3	1,1-Dichloroethane	B2813-7979	3.37	3.37	ug/Kg	U
75-35-4	1,1-Dichloroethylene	B2813-7979	2.19	2.19	ug/Kg	U
563-58-6	1,1-Dichloropropene	B2813-7979	3.13	3.13	ug/Kg	U
87-61-6	1,2,3-Trichlorobenzene	B2813-7979	2.84	2.84	ug/Kg	U
96-18-4	1,2,3-Trichloropropane	B2813-7979	4.20	4.20	ug/Kg	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2979-1551	115	13700	ug/Kg	
120-82-1	1,2,4-Trichlorobenzene	B2813-7979	2.01	2.01	ug/Kg	U
95-63-6	1,2,4-Trimethylbenzene	B2813-7979	2.19	2.19	ug/Kg	U
96-12-8	1,2-Dibromo-3-chloropropane	B2813-7979	2.72	2.72	ug/Kg	U
106-93-4	1,2-Dibromoethane	B2813-7979	3.49	3.49	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	B2813-7979	2.78	2.78	ug/Kg	U
107-06-2	1,2-Dichloroethane	B2813-7979	3.43	3.43	ug/Kg	U
78-87-5	1,2-Dichloropropane	B2813-7979	3.49	3.49	ug/Kg	U
108-67-8	1,3,5-Trimethylbenzene	B2813-7979	2.60	2.60	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	B2813-7979	3.13	3.13	ug/Kg	U
142-28-9	1,3-Dichloropropane	B2813-7979	3.07	3.07	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	B2813-7979	2.84	2.84	ug/Kg	U
590-20-7	2,2-Dichloropropane	B2813-7979	3.49	3.49	ug/Kg	U
78-93-3	Methyl ethyl ketone (2-Butanone)	B2813-7979	13.1	13.1	ug/Kg	U
110-75-8	2-Chloroethyl vinyl ether	B2813-7979	3.78	3.78	ug/Kg	U
95-49-8	2-Chlorotoluene	B2813-7979	3.13	3.13	ug/Kg	U
591-78-6	2-Hexanone	B2813-7979	11.7	11.7	ug/Kg	U
106-43-4	4-Chlorotoluene	B2813-7979	2.95	2.95	ug/Kg	U
99-87-6	4-Isopropyltoluene	B2813-7979	2.78	2.78	ug/Kg	U
108-10-1	4-Methyl-2-pentanone (MIBK)	B2813-7979	12.7	12.7	ug/Kg	U
67-64-1	2-Propanone	B2813-7979	15.4	29.3	ug/Kg	J
107-13-1	Acrylonitrile	B2813-7979	41.3	41.3	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-9

Client Sample ID: GP-02 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:56

% Solid: 84.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
71-43-2	Benzene	B2813-7979	3.13	4.30	ug/Kg	J
108-86-1	Bromobenzene	B2813-7979	3.01	3.01	ug/Kg	U
74-97-5	Bromochloromethane	B2813-7979	3.43	3.43	ug/Kg	U
75-27-4	Bromodichloromethane	B2813-7979	2.78	2.78	ug/Kg	U
75-25-2	Bromoform	B2813-7979	2.84	2.84	ug/Kg	U
74-83-9	Bromomethane	B2813-7979	2.90	2.90	ug/Kg	U
156-59-2	cis-1,2-Dichloroethylene	B2813-7979	2.66	2.66	ug/Kg	U
10061-01-5	cis-1,3-Dichloropropene	B2813-7979	3.01	3.01	ug/Kg	U
75-15-0	Carbon disulfide	B2813-7979	2.78	2.78	ug/Kg	U
56-23-5	Carbon tetrachloride	B2813-7979	3.31	3.31	ug/Kg	U
108-90-7	Chlorobenzene	B2813-7979	3.61	3.61	ug/Kg	U
75-45-6	Chlorodifluoromethane	B2813-7979	5.20	5.20	ug/Kg	U
75-00-3	Chloroethane	B2813-7979	4.14	4.14	ug/Kg	U
67-66-3	Chloroform	B2813-7979	3.49	3.49	ug/Kg	U
74-87-3	Chloromethane	B2813-7979	2.95	2.95	ug/Kg	U
124-48-1	Dibromochloromethane	B2813-7979	2.72	2.72	ug/Kg	U
74-95-3	Dibromomethane	B2813-7979	4.67	4.67	ug/Kg	U
75-71-8	Dichlorodifluoromethane	B2813-7979	2.19	2.19	ug/Kg	U
100-41-4	Ethylbenzene	B2813-7979	3.07	3.07	ug/Kg	U
87-68-3	Hexachlorobutadiene	B2813-7979	2.84	2.84	ug/Kg	U
98-82-8	Cumene	B2813-7979	2.60	873	ug/Kg	
108-38-3	m,p-Xylene	B2813-7979	5.32	5.32	ug/Kg	U
1634-04-4	Methyl tertiary butyl ether	B2813-7979	3.07	3.07	ug/Kg	U
75-09-2	Methylene Chloride	B2813-7979	5.56	5.56	ug/Kg	U
104-51-8	n-Butylbenzene	A2979-1551	123	5290	ug/Kg	
103-65-1	n-Propylbenzene	A2979-1551	120	4110	ug/Kg	
91-20-3	Naphthalene	B2813-7979	2.66	40.1	ug/Kg	
95-47-6	o-Xylene	B2813-7979	2.30	2.30	ug/Kg	U
105-05-5	p-Diethylbenzene	B2813-7979	2.72	770	ug/Kg	
622-96-8	p-Ethyltoluene	B2813-7979	2.48	2.48	ug/Kg	U
135-98-8	sec-Butylbenzene	B2813-7979	2.66	885	ug/Kg	
100-42-5	Styrene	B2813-7979	2.54	2.54	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-9

Client Sample ID: GP-02 (8-10')

Matrix: Soil

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Type: Grab

Collected: 01/23/2009 11:56

% Solid: 84.6%

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
156-60-5	trans-1,2-Dichloroethylene	B2813-7979	2.72	2.72	ug/Kg	U
10061-02-6	trans-1,3-Dichloropropene	B2813-7979	2.48	2.48	ug/Kg	U
994-05-8	TAME	B2813-7979	3.72	3.72	ug/Kg	U
98-06-6	tert-Butylbenzene	B2813-7979	3.13	3.13	ug/Kg	U
75-65-0	Tertiary butyl alcohol	B2813-7979	31.9	31.9	ug/Kg	U
127-18-4	Tetrachloroethylene	B2813-7979	2.66	2.66	ug/Kg	U
108-88-3	Toluene	B2813-7979	2.84	2.84	ug/Kg	U
79-01-6	TCE	B2813-7979	2.90	2.90	ug/Kg	U
75-69-4	Freon 11	B2813-7979	3.31	3.31	ug/Kg	U
75-01-4	Vinyl Chloride	B2813-7979	4.02	4.02	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	B2813-7979	106.0 %	(69 - 134)	
460-00-4	4-BROMOFLUOROBENZENE	B2813-7979	104.0 %	(74 - 123)	
4774-33-8	DIBROMOFLUOROMETHANE	B2813-7979	99.3 %	(75 - 136)	
2037-26-5	TOLUENE-D8	B2813-7979	106.0 %	(86 - 125)	
17060-07-0	1,2-DICHLOROETHANE-D4	A2979-1551	107.0 %	(68 - 173)	
460-00-4	4-BROMOFLUOROBENZENE	A2979-1551	118.0 %	(77 - 131)	
4774-33-8	DIBROMOFLUOROMETHANE	A2979-1551	106.0 %	(75 - 159)	
2037-26-5	TOLUENE-D8	A2979-1551	97.4 %	(74 - 136)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	A2977-1519	0.86	0.86	ug/L	U
71-55-6	1,1,1-Trichloroethane	A2977-1519	0.95	0.95	ug/L	U
79-34-5	1,1,2,2-Tetrachloroethane	A2977-1519	0.75	0.75	ug/L	U
79-00-5	1,1,2-Trichloroethane	A2977-1519	0.90	0.90	ug/L	U
76-13-1	Freon 113	A2977-1519	0.88	0.88	ug/L	U
75-34-3	1,1-Dichloroethane	A2977-1519	1.01	1.01	ug/L	U
75-35-4	1,1-Dichloroethylene	A2977-1519	0.93	0.93	ug/L	U
563-58-6	1,1-Dichloropropene	A2977-1519	0.80	0.80	ug/L	U
87-61-6	1,2,3-Trichlorobenzene	A2977-1519	0.62	0.62	ug/L	U
96-18-4	1,2,3-Trichloropropane	A2977-1519	0.78	0.78	ug/L	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2977-1519	0.78	0.78	ug/L	U
120-82-1	1,2,4-Trichlorobenzene	A2977-1519	0.67	0.67	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	A2977-1519	0.84	0.84	ug/L	U
96-12-8	1,2-Dibromo-3-chloropropane	A2977-1519	0.75	0.75	ug/L	U
106-93-4	1,2-Dibromoethane	A2977-1519	0.78	0.78	ug/L	U
95-50-1	1,2-Dichlorobenzene	A2977-1519	0.80	0.80	ug/L	U
107-06-2	1,2-Dichloroethane	A2977-1519	0.97	0.97	ug/L	U
78-87-5	1,2-Dichloropropane	A2977-1519	0.89	0.89	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	A2977-1519	0.82	0.82	ug/L	U
541-73-1	1,3-Dichlorobenzene	A2977-1519	0.77	0.77	ug/L	U
142-28-9	1,3-Dichloropropane	A2977-1519	0.83	0.83	ug/L	U
106-46-7	1,4-Dichlorobenzene	A2977-1519	0.78	0.78	ug/L	U
590-20-7	2,2-Dichloropropane	A2977-1519	0.87	0.87	ug/L	U
78-93-3	Methyl ethyl ketone (2-Butanone)	A2977-1519	0.76	0.76	ug/L	U
110-75-8	2-Chloroethyl vinyl ether	A2977-1519	1.42	1.42	ug/L	U
95-49-8	2-Chlorotoluene	A2977-1519	0.83	0.83	ug/L	U
591-78-6	2-Hexanone	A2977-1519	0.61	0.61	ug/L	U
106-43-4	4-Chlorotoluene	A2977-1519	0.78	0.78	ug/L	U
99-87-6	4-Isopropyltoluene	A2977-1519	0.81	0.81	ug/L	U
108-10-1	4-Methyl-2-pentanone (MIBK)	A2977-1519	0.86	0.86	ug/L	U
67-64-1	2-Propanone	A2977-1519	1.16	1.16	ug/L	U
107-13-1	Acrylonitrile	A2977-1519	3.78	3.78	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
71-43-2	Benzene	A2977-1519	0.88	0.88	ug/L	U
108-86-1	Bromobenzene	A2977-1519	0.80	0.80	ug/L	U
74-97-5	Bromochloromethane	A2977-1519	0.91	0.91	ug/L	U
75-27-4	Bromodichloromethane	A2977-1519	0.89	0.89	ug/L	U
75-25-2	Bromoform	A2977-1519	0.81	0.81	ug/L	U
74-83-9	Bromomethane	A2977-1519	1.02	1.02	ug/L	U
156-59-2	cis-1,2-Dichloroethylene	A2977-1519	0.89	0.89	ug/L	U
10061-01-5	cis-1,3-Dichloropropene	A2977-1519	0.87	0.87	ug/L	U
75-15-0	Carbon disulfide	A2977-1519	0.82	0.82	ug/L	U
56-23-5	Carbon tetrachloride	A2977-1519	0.90	0.90	ug/L	U
108-90-7	Chlorobenzene	A2977-1519	0.86	0.86	ug/L	U
75-45-6	Chlorodifluoromethane	A2977-1519	0.93	0.93	ug/L	U
75-00-3	Chloroethane	A2977-1519	1.44	1.44	ug/L	U
67-66-3	Chloroform	A2977-1519	0.97	0.97	ug/L	U
74-87-3	Chloromethane	A2977-1519	0.79	0.79	ug/L	U
124-48-1	Dibromochloromethane	A2977-1519	0.83	0.83	ug/L	U
74-95-3	Dibromomethane	A2977-1519	0.91	0.91	ug/L	U
75-71-8	Dichlorodifluoromethane	A2977-1519	0.80	0.80	ug/L	U
100-41-4	Ethylbenzene	A2977-1519	0.89	0.89	ug/L	U
87-68-3	Hexachlorobutadiene	A2977-1519	0.79	0.79	ug/L	U
98-82-8	Cumene	A2977-1519	0.86	0.86	ug/L	U
108-38-3	m,p-Xylene	A2977-1519	1.74	1.74	ug/L	U
1634-04-4	Methyl tertiary butyl ether	A2977-1519	0.88	0.88	ug/L	U
75-09-2	Methylene Chloride	A2977-1519	1.08	1.08	ug/L	U
104-51-8	n-Butylbenzene	A2977-1519	0.83	0.83	ug/L	U
103-65-1	n-Propylbenzene	A2977-1519	0.81	0.81	ug/L	U
91-20-3	Naphthalene	A2977-1519	0.61	0.61	ug/L	U
95-47-6	o-Xylene	A2977-1519	0.85	0.85	ug/L	U
105-05-5	p-Diethylbenzene	A2977-1519	0.77	0.77	ug/L	U
622-96-8	p-Ethyltoluene	A2977-1519	0.81	0.81	ug/L	U
135-98-8	sec-Butylbenzene	A2977-1519	0.78	0.78	ug/L	U
100-42-5	Styrene	A2977-1519	0.81	0.81	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
156-60-5	trans-1,2-Dichloroethylene	A2977-1519	0.95	0.95	ug/L	U
10061-02-6	trans-1,3-Dichloropropene	A2977-1519	0.79	0.79	ug/L	U
994-05-8	TAME	A2977-1519	0.86	0.86	ug/L	U
98-06-6	tert-Butylbenzene	A2977-1519	0.85	0.85	ug/L	U
75-65-0	Tertiary butyl alcohol	A2977-1519	8.10	8.10	ug/L	U
127-18-4	Tetrachloroethylene	A2977-1519	0.84	0.84	ug/L	U
108-88-3	Toluene	A2977-1519	1.08	1.08	ug/L	U
79-01-6	TCE	A2977-1519	0.94	0.94	ug/L	U
75-69-4	Freon 11	A2977-1519	1.00	1.00	ug/L	U
75-01-4	Vinyl Chloride	A2977-1519	0.82	0.82	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	A2977-1519	107.0 %	(67 - 121)	
460-00-4	4-BROMOFLUOROBENZENE	A2977-1519	107.0 %	(74 - 114)	
4774-33-8	DIBROMOFLUOROMETHANE	A2977-1519	103.0 %	(75 - 112)	
2037-26-5	TOLUENE-D8	A2977-1519	96.4 %	(70 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	A2977-1520	8.60	8.60	ug/L	U
71-55-6	1,1,1-Trichloroethane	A2977-1520	9.50	9.50	ug/L	U
79-34-5	1,1,2,2-Tetrachloroethane	A2977-1520	7.50	7.50	ug/L	U
79-00-5	1,1,2-Trichloroethane	A2977-1520	9.00	9.00	ug/L	U
76-13-1	Freon 113	A2977-1520	8.80	8.80	ug/L	U
75-34-3	1,1-Dichloroethane	A2977-1520	10.1	10.1	ug/L	U
75-35-4	1,1-Dichloroethylene	A2977-1520	9.30	9.30	ug/L	U
563-58-6	1,1-Dichloropropene	A2977-1520	8.00	8.00	ug/L	U
87-61-6	1,2,3-Trichlorobenzene	A2977-1520	6.20	6.20	ug/L	U
96-18-4	1,2,3-Trichloropropane	A2977-1520	7.80	7.80	ug/L	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2977-1520	7.80	111	ug/L	
120-82-1	1,2,4-Trichlorobenzene	A2977-1520	6.70	6.70	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	A2977-1520	8.40	8.40	ug/L	U
96-12-8	1,2-Dibromo-3-chloropropane	A2977-1520	7.50	7.50	ug/L	U
106-93-4	1,2-Dibromoethane	A2977-1520	7.80	7.80	ug/L	U
95-50-1	1,2-Dichlorobenzene	A2977-1520	8.00	8.00	ug/L	U
107-06-2	1,2-Dichloroethane	A2977-1520	9.70	9.70	ug/L	U
78-87-5	1,2-Dichloropropane	A2977-1520	8.90	8.90	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	A2977-1520	8.20	8.20	ug/L	U
541-73-1	1,3-Dichlorobenzene	A2977-1520	7.70	7.70	ug/L	U
142-28-9	1,3-Dichloropropane	A2977-1520	8.30	8.30	ug/L	U
106-46-7	1,4-Dichlorobenzene	A2977-1520	7.80	7.80	ug/L	U
590-20-7	2,2-Dichloropropane	A2977-1520	8.70	8.70	ug/L	U
78-93-3	Methyl ethyl ketone (2-Butanone)	A2977-1520	7.60	7.60	ug/L	U
110-75-8	2-Chloroethyl vinyl ether	A2977-1520	14.2	14.2	ug/L	U
95-49-8	2-Chlorotoluene	A2977-1520	8.30	8.30	ug/L	U
591-78-6	2-Hexanone	A2977-1520	6.10	6.10	ug/L	U
106-43-4	4-Chlorotoluene	A2977-1520	7.80	7.80	ug/L	U
99-87-6	4-Isopropyltoluene	A2977-1520	8.10	8.10	ug/L	U
108-10-1	4-Methyl-2-pentanone (MIBK)	A2977-1520	8.60	8.60	ug/L	U
67-64-1	2-Propanone	A2977-1520	11.6	11.6	ug/L	U
107-13-1	Acrylonitrile	A2977-1520	37.8	37.8	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
71-43-2	Benzene	A2977-1520	8.80	8.80	ug/L	U
108-86-1	Bromobenzene	A2977-1520	8.00	8.00	ug/L	U
74-97-5	Bromochloromethane	A2977-1520	9.10	9.10	ug/L	U
75-27-4	Bromodichloromethane	A2977-1520	8.90	8.90	ug/L	U
75-25-2	Bromoform	A2977-1520	8.10	8.10	ug/L	U
74-83-9	Bromomethane	A2977-1520	10.2	10.2	ug/L	U
156-59-2	cis-1,2-Dichloroethylene	A2977-1520	8.90	8.90	ug/L	U
10061-01-5	cis-1,3-Dichloropropene	A2977-1520	8.70	8.70	ug/L	U
75-15-0	Carbon disulfide	A2977-1520	8.20	8.20	ug/L	U
56-23-5	Carbon tetrachloride	A2977-1520	9.00	9.00	ug/L	U
108-90-7	Chlorobenzene	A2977-1520	8.60	8.60	ug/L	U
75-45-6	Chlorodifluoromethane	A2977-1520	9.30	9.30	ug/L	U
75-00-3	Chloroethane	A2977-1520	14.4	14.4	ug/L	U
67-66-3	Chloroform	A2977-1520	9.70	9.70	ug/L	U
74-87-3	Chloromethane	A2977-1520	7.90	7.90	ug/L	U
124-48-1	Dibromochloromethane	A2977-1520	8.30	8.30	ug/L	U
74-95-3	Dibromomethane	A2977-1520	9.10	9.10	ug/L	U
75-71-8	Dichlorodifluoromethane	A2977-1520	8.00	8.00	ug/L	U
100-41-4	Ethylbenzene	A2977-1520	8.90	8.90	ug/L	U
87-68-3	Hexachlorobutadiene	A2977-1520	7.90	7.90	ug/L	U
98-82-8	Cumene	A2977-1520	8.60	11.6	ug/L	J
108-38-3	m,p-Xylene	A2977-1520	17.4	17.4	ug/L	U
1634-04-4	Methyl tertiary butyl ether	A2977-1520	8.80	8.80	ug/L	U
75-09-2	Methylene Chloride	A2977-1520	10.8	10.8	ug/L	U
104-51-8	n-Butylbenzene	A2977-1520	8.30	8.92	ug/L	J
103-65-1	n-Propylbenzene	A2977-1520	8.10	17.2	ug/L	J
91-20-3	Naphthalene	A2977-1520	6.10	6.10	ug/L	U
95-47-6	o-Xylene	A2977-1520	8.50	8.50	ug/L	U
105-05-5	p-Diethylbenzene	A2977-1520	7.70	14.5	ug/L	J
622-96-8	p-Ethyltoluene	A2977-1520	8.10	8.10	ug/L	U
135-98-8	sec-Butylbenzene	A2977-1520	7.80	15.1	ug/L	J
100-42-5	Styrene	A2977-1520	8.10	8.10	ug/L	U



Environmental Testing Laboratories, Inc.

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02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
156-60-5	trans-1,2-Dichloroethylene	A2977-1520	9.50	9.50	ug/L	U
10061-02-6	trans-1,3-Dichloropropene	A2977-1520	7.90	7.90	ug/L	U
994-05-8	TAME	A2977-1520	8.60	8.60	ug/L	U
98-06-6	tert-Butylbenzene	A2977-1520	8.50	8.50	ug/L	U
75-65-0	Tertiary butyl alcohol	A2977-1520	81.0	81.0	ug/L	U
127-18-4	Tetrachloroethylene	A2977-1520	8.40	8.40	ug/L	U
108-88-3	Toluene	A2977-1520	10.8	10.8	ug/L	U
79-01-6	TCE	A2977-1520	9.40	9.40	ug/L	U
75-69-4	Freon 11	A2977-1520	10.0	10.0	ug/L	U
75-01-4	Vinyl Chloride	A2977-1520	8.20	8.20	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	A2977-1520	104.0 %	(67 - 121)	
460-00-4	4-BROMOFLUOROBENZENE	A2977-1520	109.0 %	(74 - 114)	
4774-33-8	DIBROMOFLUOROMETHANE	A2977-1520	101.0 %	(75 - 112)	
2037-26-5	TOLUENE-D8	A2977-1520	97.0 %	(70 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
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02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	A2976-1502	0.86	0.86	ug/L	U
71-55-6	1,1,1-Trichloroethane	A2976-1502	0.95	0.95	ug/L	U
79-34-5	1,1,2,2-Tetrachloroethane	A2976-1502	0.75	0.75	ug/L	U
79-00-5	1,1,2-Trichloroethane	A2976-1502	0.90	0.90	ug/L	U
76-13-1	Freon 113	A2976-1502	0.88	0.88	ug/L	U
75-34-3	1,1-Dichloroethane	A2976-1502	1.01	1.01	ug/L	U
75-35-4	1,1-Dichloroethylene	A2976-1502	0.93	0.93	ug/L	U
563-58-6	1,1-Dichloropropene	A2976-1502	0.80	0.80	ug/L	U
87-61-6	1,2,3-Trichlorobenzene	A2976-1502	0.62	0.62	ug/L	U
96-18-4	1,2,3-Trichloropropane	A2976-1502	0.78	0.78	ug/L	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2976-1502	0.78	0.78	ug/L	U
120-82-1	1,2,4-Trichlorobenzene	A2976-1502	0.67	0.67	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	A2976-1502	0.84	0.84	ug/L	U
96-12-8	1,2-Dibromo-3-chloropropane	A2976-1502	0.75	0.75	ug/L	U
106-93-4	1,2-Dibromoethane	A2976-1502	0.78	0.78	ug/L	U
95-50-1	1,2-Dichlorobenzene	A2976-1502	0.80	0.80	ug/L	U
107-06-2	1,2-Dichloroethane	A2976-1502	0.97	0.97	ug/L	U
78-87-5	1,2-Dichloropropane	A2976-1502	0.89	0.89	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	A2976-1502	0.82	0.82	ug/L	U
541-73-1	1,3-Dichlorobenzene	A2976-1502	0.77	0.77	ug/L	U
142-28-9	1,3-Dichloropropane	A2976-1502	0.83	0.83	ug/L	U
106-46-7	1,4-Dichlorobenzene	A2976-1502	0.78	0.78	ug/L	U
590-20-7	2,2-Dichloropropane	A2976-1502	0.87	0.87	ug/L	U
78-93-3	Methyl ethyl ketone (2-Butanone)	A2976-1502	0.76	0.76	ug/L	U
110-75-8	2-Chloroethyl vinyl ether	A2976-1502	1.42	1.42	ug/L	U
95-49-8	2-Chlorotoluene	A2976-1502	0.83	0.83	ug/L	U
591-78-6	2-Hexanone	A2976-1502	0.61	0.61	ug/L	U
106-43-4	4-Chlorotoluene	A2976-1502	0.78	0.78	ug/L	U
99-87-6	4-Isopropyltoluene	A2976-1502	0.81	0.81	ug/L	U
108-10-1	4-Methyl-2-pentanone (MIBK)	A2976-1502	0.86	0.86	ug/L	U
67-64-1	2-Propanone	A2976-1502	1.16	1.16	ug/L	U
107-13-1	Acrylonitrile	A2976-1502	3.78	3.78	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
71-43-2	Benzene	A2976-1502	0.88	0.88	ug/L	U
108-86-1	Bromobenzene	A2976-1502	0.80	0.80	ug/L	U
74-97-5	Bromochloromethane	A2976-1502	0.91	0.91	ug/L	U
75-27-4	Bromodichloromethane	A2976-1502	0.89	0.89	ug/L	U
75-25-2	Bromoform	A2976-1502	0.81	0.81	ug/L	U
74-83-9	Bromomethane	A2976-1502	1.02	1.02	ug/L	U
156-59-2	cis-1,2-Dichloroethylene	A2976-1502	0.89	0.89	ug/L	U
10061-01-5	cis-1,3-Dichloropropene	A2976-1502	0.87	0.87	ug/L	U
75-15-0	Carbon disulfide	A2976-1502	0.82	0.82	ug/L	U
56-23-5	Carbon tetrachloride	A2976-1502	0.90	0.90	ug/L	U
108-90-7	Chlorobenzene	A2976-1502	0.86	0.86	ug/L	U
75-45-6	Chlorodifluoromethane	A2976-1502	0.93	0.93	ug/L	U
75-00-3	Chloroethane	A2976-1502	1.44	1.44	ug/L	U
67-66-3	Chloroform	A2976-1502	0.97	0.97	ug/L	U
74-87-3	Chloromethane	A2976-1502	0.79	0.79	ug/L	U
124-48-1	Dibromochloromethane	A2976-1502	0.83	0.83	ug/L	U
74-95-3	Dibromomethane	A2976-1502	0.91	0.91	ug/L	U
75-71-8	Dichlorodifluoromethane	A2976-1502	0.80	0.80	ug/L	U
100-41-4	Ethylbenzene	A2976-1502	0.89	0.89	ug/L	U
87-68-3	Hexachlorobutadiene	A2976-1502	0.79	0.79	ug/L	U
98-82-8	Cumene	A2976-1502	0.86	0.86	ug/L	U
108-38-3	m,p-Xylene	A2976-1502	1.74	1.74	ug/L	U
1634-04-4	Methyl tertiary butyl ether	A2976-1502	0.88	1.73	ug/L	J
75-09-2	Methylene Chloride	A2976-1502	1.08	1.08	ug/L	U
104-51-8	n-Butylbenzene	A2976-1502	0.83	0.83	ug/L	U
103-65-1	n-Propylbenzene	A2976-1502	0.81	0.81	ug/L	U
91-20-3	Naphthalene	A2976-1502	0.61	0.61	ug/L	U
95-47-6	o-Xylene	A2976-1502	0.85	0.85	ug/L	U
105-05-5	p-Diethylbenzene	A2976-1502	0.77	0.77	ug/L	U
622-96-8	p-Ethyltoluene	A2976-1502	0.81	0.81	ug/L	U
135-98-8	sec-Butylbenzene	A2976-1502	0.78	0.78	ug/L	U
100-42-5	Styrene	A2976-1502	0.81	0.81	ug/L	U



Environmental Testing Laboratories, Inc.

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Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
156-60-5	trans-1,2-Dichloroethylene	A2976-1502	0.95	0.95	ug/L	U
10061-02-6	trans-1,3-Dichloropropene	A2976-1502	0.79	0.79	ug/L	U
994-05-8	TAME	A2976-1502	0.86	0.86	ug/L	U
98-06-6	tert-Butylbenzene	A2976-1502	0.85	0.85	ug/L	U
75-65-0	Tertiary butyl alcohol	A2976-1502	8.10	8.10	ug/L	U
127-18-4	Tetrachloroethylene	A2976-1502	0.84	0.84	ug/L	U
108-88-3	Toluene	A2976-1502	1.08	1.08	ug/L	U
79-01-6	TCE	A2976-1502	0.94	0.94	ug/L	U
75-69-4	Freon 11	A2976-1502	1.00	1.00	ug/L	U
75-01-4	Vinyl Chloride	A2976-1502	0.82	0.82	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	A2976-1502	103.0 %	(67 - 121)	
460-00-4	4-BROMOFLUOROBENZENE	A2976-1502	108.0 %	(74 - 114)	
4774-33-8	DIBROMOFLUOROMETHANE	A2976-1502	103.0 %	(75 - 112)	
2037-26-5	TOLUENE-D8	A2976-1502	98.7 %	(70 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
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02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-13

Client Sample ID: GP-07 (GW)

Collected: 01/23/2009 15:21

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
630-20-6	1,1,1,2-Tetrachloroethane	A2976-1503	0.86	0.86	ug/L	U
71-55-6	1,1,1-Trichloroethane	A2976-1503	0.95	0.95	ug/L	U
79-34-5	1,1,2,2-Tetrachloroethane	A2976-1503	0.75	0.75	ug/L	U
79-00-5	1,1,2-Trichloroethane	A2976-1503	0.90	0.90	ug/L	U
76-13-1	Freon 113	A2976-1503	0.88	0.88	ug/L	U
75-34-3	1,1-Dichloroethane	A2976-1503	1.01	1.01	ug/L	U
75-35-4	1,1-Dichloroethylene	A2976-1503	0.93	0.93	ug/L	U
563-58-6	1,1-Dichloropropene	A2976-1503	0.80	0.80	ug/L	U
87-61-6	1,2,3-Trichlorobenzene	A2976-1503	0.62	0.62	ug/L	U
96-18-4	1,2,3-Trichloropropane	A2976-1503	0.78	0.78	ug/L	U
95-93-2	1,2,4,5-Tetramethylbenzene	A2976-1503	0.78	0.78	ug/L	U
120-82-1	1,2,4-Trichlorobenzene	A2976-1503	0.67	0.67	ug/L	U
95-63-6	1,2,4-Trimethylbenzene	A2976-1503	0.84	0.84	ug/L	U
96-12-8	1,2-Dibromo-3-chloropropane	A2976-1503	0.75	0.75	ug/L	U
106-93-4	1,2-Dibromoethane	A2976-1503	0.78	0.78	ug/L	U
95-50-1	1,2-Dichlorobenzene	A2976-1503	0.80	0.80	ug/L	U
107-06-2	1,2-Dichloroethane	A2976-1503	0.97	0.97	ug/L	U
78-87-5	1,2-Dichloropropane	A2976-1503	0.89	0.89	ug/L	U
108-67-8	1,3,5-Trimethylbenzene	A2976-1503	0.82	0.82	ug/L	U
541-73-1	1,3-Dichlorobenzene	A2976-1503	0.77	0.77	ug/L	U
142-28-9	1,3-Dichloropropane	A2976-1503	0.83	0.83	ug/L	U
106-46-7	1,4-Dichlorobenzene	A2976-1503	0.78	0.78	ug/L	U
590-20-7	2,2-Dichloropropane	A2976-1503	0.87	0.87	ug/L	U
78-93-3	Methyl ethyl ketone (2-Butanone)	A2976-1503	0.76	0.76	ug/L	U
110-75-8	2-Chloroethyl vinyl ether	A2976-1503	1.42	1.42	ug/L	U
95-49-8	2-Chlorotoluene	A2976-1503	0.83	0.83	ug/L	U
591-78-6	2-Hexanone	A2976-1503	0.61	0.61	ug/L	U
106-43-4	4-Chlorotoluene	A2976-1503	0.78	0.78	ug/L	U
99-87-6	4-Isopropyltoluene	A2976-1503	0.81	0.81	ug/L	U
108-10-1	4-Methyl-2-pentanone (MIBK)	A2976-1503	0.86	0.86	ug/L	U
67-64-1	2-Propanone	A2976-1503	1.16	1.16	ug/L	U
107-13-1	Acrylonitrile	A2976-1503	3.78	3.78	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-13

Client Sample ID: GP-07 (GW)

Collected: 01/23/2009 15:21

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
71-43-2	Benzene	A2976-1503	0.88	0.88	ug/L	U
108-86-1	Bromobenzene	A2976-1503	0.80	0.80	ug/L	U
74-97-5	Bromochloromethane	A2976-1503	0.91	0.91	ug/L	U
75-27-4	Bromodichloromethane	A2976-1503	0.89	0.89	ug/L	U
75-25-2	Bromoform	A2976-1503	0.81	0.81	ug/L	U
74-83-9	Bromomethane	A2976-1503	1.02	1.02	ug/L	U
156-59-2	cis-1,2-Dichloroethylene	A2976-1503	0.89	6.32	ug/L	
10061-01-5	cis-1,3-Dichloropropene	A2976-1503	0.87	0.87	ug/L	U
75-15-0	Carbon disulfide	A2976-1503	0.82	0.98	ug/L	J
56-23-5	Carbon tetrachloride	A2976-1503	0.90	0.90	ug/L	U
108-90-7	Chlorobenzene	A2976-1503	0.86	0.86	ug/L	U
75-45-6	Chlorodifluoromethane	A2976-1503	0.93	0.93	ug/L	U
75-00-3	Chloroethane	A2976-1503	1.44	1.44	ug/L	U
67-66-3	Chloroform	A2976-1503	0.97	0.97	ug/L	U
74-87-3	Chloromethane	A2976-1503	0.79	0.79	ug/L	U
124-48-1	Dibromochloromethane	A2976-1503	0.83	0.83	ug/L	U
74-95-3	Dibromomethane	A2976-1503	0.91	0.91	ug/L	U
75-71-8	Dichlorodifluoromethane	A2976-1503	0.80	0.80	ug/L	U
100-41-4	Ethylbenzene	A2976-1503	0.89	0.89	ug/L	U
87-68-3	Hexachlorobutadiene	A2976-1503	0.79	0.79	ug/L	U
98-82-8	Cumene	A2976-1503	0.86	0.86	ug/L	U
108-38-3	m,p-Xylene	A2976-1503	1.74	1.74	ug/L	U
1634-04-4	Methyl tertiary butyl ether	A2976-1503	0.88	4.99	ug/L	J
75-09-2	Methylene Chloride	A2976-1503	1.08	1.08	ug/L	U
104-51-8	n-Butylbenzene	A2976-1503	0.83	0.83	ug/L	U
103-65-1	n-Propylbenzene	A2976-1503	0.81	0.81	ug/L	U
91-20-3	Naphthalene	A2976-1503	0.61	0.61	ug/L	U
95-47-6	o-Xylene	A2976-1503	0.85	0.85	ug/L	U
105-05-5	p-Diethylbenzene	A2976-1503	0.77	0.77	ug/L	U
622-96-8	p-Ethyltoluene	A2976-1503	0.81	0.81	ug/L	U
135-98-8	sec-Butylbenzene	A2976-1503	0.78	0.78	ug/L	U
100-42-5	Styrene	A2976-1503	0.81	0.81	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Volatiles - EPA 8260B

Sample: 0901338-13

Client Sample ID: GP-07 (GW)

Collected: 01/23/2009 15:21

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
156-60-5	trans-1,2-Dichloroethylene	A2976-1503	0.95	0.95	ug/L	U
10061-02-6	trans-1,3-Dichloropropene	A2976-1503	0.79	0.79	ug/L	U
994-05-8	TAME	A2976-1503	0.86	0.86	ug/L	U
98-06-6	tert-Butylbenzene	A2976-1503	0.85	0.85	ug/L	U
75-65-0	Tertiary butyl alcohol	A2976-1503	8.10	8.10	ug/L	U
127-18-4	Tetrachloroethylene	A2976-1503	0.84	9.04	ug/L	
108-88-3	Toluene	A2976-1503	1.08	1.08	ug/L	U
79-01-6	TCE	A2976-1503	0.94	29.4	ug/L	
75-69-4	Freon 11	A2976-1503	1.00	1.00	ug/L	U
75-01-4	Vinyl Chloride	A2976-1503	0.82	0.82	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
17060-07-0	1,2-DICHLOROETHANE-D4	A2976-1503	99.5 %	(67 - 121)	
460-00-4	4-BROMOFLUOROBENZENE	A2976-1503	106.0 %	(74 - 114)	
4774-33-8	DIBROMOFLUOROMETHANE	A2976-1503	102.0 %	(75 - 112)	
2037-26-5	TOLUENE-D8	A2976-1503	97.2 %	(70 - 113)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2161-9381	48.4	48.4	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	C2161-9381	36.0	36.0	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	C2161-9381	39.1	39.1	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	C2161-9381	38.0	38.0	ug/Kg	U
121-14-2	2,4-Dinitrotoluene	C2161-9381	69.8	69.8	ug/Kg	U
606-20-2	2,6-Dinitrotoluene	C2161-9381	48.0	48.0	ug/Kg	U
91-58-7	2-Chloronaphthalene	C2161-9381	56.1	56.1	ug/Kg	U
91-57-6	2-Methylnaphthalene	C2161-9381	46.2	99.8	ug/Kg	J
88-74-4	2-Nitroaniline	C2161-9381	60.7	60.7	ug/Kg	U
91-94-1	3,3'-Dichlorobenzidine	C2161-9381	56.1	56.1	ug/Kg	U
99-09-2	3-Nitroaniline	C2161-9381	20.0	20.0	ug/Kg	U
101-55-3	4-Bromophenylphenyl ether	C2161-9381	52.9	52.9	ug/Kg	U
106-47-8	4-Chloroaniline	C2161-9381	44.4	44.4	ug/Kg	U
7005-72-3	4-Chlorophenylphenyl ether	C2161-9381	45.3	45.3	ug/Kg	U
100-01-6	4-Nitroaniline	C2161-9381	114	114	ug/Kg	U
83-32-9	Acenaphthene	C2161-9381	49.0	56.0	ug/Kg	J
208-96-8	Acenaphthylene	C2161-9381	40.0	158	ug/Kg	J
120-12-7	Anthracene	C2161-9381	51.8	248	ug/Kg	J
56-55-3	Benzo[a]anthracene	C2161-9381	49.2	419	ug/Kg	J
50-32-8	Benzo[a]pyrene	C2161-9381	60.7	385	ug/Kg	J
205-99-2	3,4-Benzofluoranthene	C2161-9381	48.3	279	ug/Kg	J
191-24-2	Benzo[g,h,i]perylene	C2161-9381	88.9	193	ug/Kg	J
207-08-9	Benzo[k]fluoranthene	C2161-9381	88.6	331	ug/Kg	J
65-85-0	Benzoic acid	C2161-9381	6820	6820	ug/Kg	U
100-51-6	Benzyl alcohol	C2161-9381	68.7	68.7	ug/Kg	U
111-91-1	bis(2-chloroethoxy)methane	C2161-9381	48.2	48.2	ug/Kg	U
111-44-4	bis(2-chloroethyl)ether	C2161-9381	55.1	55.1	ug/Kg	U
108-60-1	bis(2-chloroisopropyl)ether	C2161-9381	42.7	42.7	ug/Kg	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2161-9381	76.3	169	ug/Kg	J
85-68-7	Butyl benzyl phthalate	C2161-9381	61.5	61.5	ug/Kg	U
86-74-8	Carbazole	C2161-9381	67.1	67.1	ug/Kg	U
218-01-9	Chrysene	C2161-9381	61.6	467	ug/Kg	J



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
84-74-2	Di-n-butyl phthalate	C2161-9381	65.5	65.5	ug/Kg	U
117-84-0	Di-n-octyl phthalate	C2161-9381	57.3	57.3	ug/Kg	U
53-70-3	Dibenzo[a,h]anthracene	C2161-9381	65.0	73.2	ug/Kg	J
132-64-9	Dibenzofuran	C2161-9381	38.9	38.9	ug/Kg	U
84-66-2	Diethyl phthalate	C2161-9381	76.1	76.1	ug/Kg	U
131-11-3	Dimethyl phthalate	C2161-9381	56.2	56.2	ug/Kg	U
206-44-0	Fluoranthene	C2161-9381	64.1	944	ug/Kg	
86-73-7	Fluorene	C2161-9381	46.8	162	ug/Kg	J
118-74-1	Hexachlorobenzene	C2161-9381	49.8	49.8	ug/Kg	U
87-68-3	Hexachlorobutadiene	C2161-9381	46.6	46.6	ug/Kg	U
77-47-4	Hexachlorocyclopentadiene	C2161-9381	360	360	ug/Kg	U
67-72-1	Hexachloroethane	C2161-9381	51.8	51.8	ug/Kg	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9381	53.8	188	ug/Kg	J
78-59-1	Isophorone	C2161-9381	53.2	53.2	ug/Kg	U
621-64-7	Di-n-propylnitrosamine	C2161-9381	35.2	35.2	ug/Kg	U
86-30-6	Diphenylnitrosamine	C2161-9381	63.4	197	ug/Kg	J
91-20-3	Naphthalene	C2161-9381	46.8	115	ug/Kg	J
98-95-3	Nitrobenzene	C2161-9381	45.1	45.1	ug/Kg	U
85-01-8	Phenanthrene	C2161-9381	53.0	900	ug/Kg	
129-00-0	Pyrene	C2161-9381	43.1	977	ug/Kg	
110-86-1	Pyridine	C2161-9381	66.7	66.7	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
118-76-6	2,4,6-TRIBROMOPHENOL	C2161-9381	82.1 %	(19 - 122)	
321-60-8	2-FLUOROBIPHENYL	C2161-9381	72.6 %	(30 - 115)	
367-12-4	2-FLUOROPHENOL	C2161-9381	63.8 %	(25 - 121)	
4165-60-0	NITROBENZENE-D5	C2161-9381	67.1 %	(23 - 120)	
13127-88-3	PHENOL-D6	C2161-9381	68.9 %	(24 - 113)	
1718-51-0	TERPHENYL-D14	C2161-9381	82.1 %	(18 - 137)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2161-9378	46.5	46.5	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	C2161-9378	34.6	34.6	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	C2161-9378	37.6	37.6	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	C2161-9378	36.5	36.5	ug/Kg	U
121-14-2	2,4-Dinitrotoluene	C2161-9378	67.1	67.1	ug/Kg	U
606-20-2	2,6-Dinitrotoluene	C2161-9378	46.1	46.1	ug/Kg	U
91-58-7	2-Chloronaphthalene	C2161-9378	53.9	53.9	ug/Kg	U
91-57-6	2-Methylnaphthalene	C2161-9378	44.4	245	ug/Kg	J
88-74-4	2-Nitroaniline	C2161-9378	58.3	58.3	ug/Kg	U
91-94-1	3,3'-Dichlorobenzidine	C2161-9378	53.9	53.9	ug/Kg	U
99-09-2	3-Nitroaniline	C2161-9378	19.2	19.2	ug/Kg	U
101-55-3	4-Bromophenylphenyl ether	C2161-9378	50.8	50.8	ug/Kg	U
106-47-8	4-Chloroaniline	C2161-9378	42.6	42.6	ug/Kg	U
7005-72-3	4-Chlorophenylphenyl ether	C2161-9378	43.5	43.5	ug/Kg	U
100-01-6	4-Nitroaniline	C2161-9378	109	109	ug/Kg	U
83-32-9	Acenaphthene	C2161-9378	47.1	47.1	ug/Kg	U
208-96-8	Acenaphthylene	C2161-9378	38.5	38.5	ug/Kg	U
120-12-7	Anthracene	C2161-9378	49.8	49.8	ug/Kg	U
56-55-3	Benzo[a]anthracene	C2161-9378	47.3	47.3	ug/Kg	U
50-32-8	Benzo[a]pyrene	C2161-9378	58.3	58.3	ug/Kg	U
205-99-2	3,4-Benzofluoranthene	C2161-9378	46.4	46.4	ug/Kg	U
191-24-2	Benzo[g,h,i]perylene	C2161-9378	85.5	85.5	ug/Kg	U
207-08-9	Benzo[k]fluoranthene	C2161-9378	85.1	85.1	ug/Kg	U
65-85-0	Benzoic acid	C2161-9378	6550	6550	ug/Kg	U
100-51-6	Benzyl alcohol	C2161-9378	66.0	66.0	ug/Kg	U
111-91-1	bis(2-chloroethoxy)methane	C2161-9378	46.3	46.3	ug/Kg	U
111-44-4	bis(2-chloroethyl)ether	C2161-9378	52.9	52.9	ug/Kg	U
108-60-1	bis(2-chloroisopropyl)ether	C2161-9378	41.1	41.1	ug/Kg	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2161-9378	73.3	73.3	ug/Kg	U
85-68-7	Butyl benzyl phthalate	C2161-9378	59.1	59.1	ug/Kg	U
86-74-8	Carbazole	C2161-9378	64.4	64.4	ug/Kg	U
218-01-9	Chrysene	C2161-9378	59.2	59.2	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
84-74-2	Di-n-butyl phthalate	C2161-9378	63.0	63.0	ug/Kg	U
117-84-0	Di-n-octyl phthalate	C2161-9378	55.0	55.0	ug/Kg	U
53-70-3	Dibenzo[a,h]anthracene	C2161-9378	62.4	62.4	ug/Kg	U
132-64-9	Dibenzofuran	C2161-9378	37.4	37.4	ug/Kg	U
84-66-2	Diethyl phthalate	C2161-9378	73.2	73.2	ug/Kg	U
131-11-3	Dimethyl phthalate	C2161-9378	54.0	54.0	ug/Kg	U
206-44-0	Fluoranthene	C2161-9378	61.6	61.6	ug/Kg	U
86-73-7	Fluorene	C2161-9378	45.0	45.0	ug/Kg	U
118-74-1	Hexachlorobenzene	C2161-9378	47.9	47.9	ug/Kg	U
87-68-3	Hexachlorobutadiene	C2161-9378	44.7	44.7	ug/Kg	U
77-47-4	Hexachlorocyclopentadiene	C2161-9378	346	346	ug/Kg	U
67-72-1	Hexachloroethane	C2161-9378	49.8	49.8	ug/Kg	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9378	51.7	51.7	ug/Kg	U
78-59-1	Isophorone	C2161-9378	51.1	51.1	ug/Kg	U
621-64-7	Di-n-propylnitrosamine	C2161-9378	33.8	33.8	ug/Kg	U
86-30-6	Diphenylnitrosamine	C2161-9378	61.0	61.0	ug/Kg	U
91-20-3	Naphthalene	C2161-9378	45.0	49.7	ug/Kg	J
98-95-3	Nitrobenzene	C2161-9378	43.3	43.3	ug/Kg	U
85-01-8	Phenanthrene	C2161-9378	50.9	62.3	ug/Kg	J
129-00-0	Pyrene	C2161-9378	41.4	45.2	ug/Kg	J
110-86-1	Pyridine	C2161-9378	64.1	64.1	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
118-76-6	2,4,6-TRIBROMOPHENOL	C2161-9378	96.4 %	(19 - 122)	
321-60-8	2-FLUOROBIPHENYL	C2161-9378	68.4 %	(30 - 115)	
367-12-4	2-FLUOROPHENOL	C2161-9378	68.0 %	(25 - 121)	
4165-60-0	NITROBENZENE-D5	C2161-9378	66.9 %	(23 - 120)	
13127-88-3	PHENOL-D6	C2161-9378	68.7 %	(24 - 113)	
1718-51-0	TERPHENYL-D14	C2161-9378	82.7 %	(18 - 137)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2161-9379	46.7	46.7	ug/Kg	U
95-50-1	1,2-Dichlorobenzene	C2161-9379	34.7	34.7	ug/Kg	U
541-73-1	1,3-Dichlorobenzene	C2161-9379	37.8	37.8	ug/Kg	U
106-46-7	1,4-Dichlorobenzene	C2161-9379	36.6	36.6	ug/Kg	U
121-14-2	2,4-Dinitrotoluene	C2161-9379	67.4	67.4	ug/Kg	U
606-20-2	2,6-Dinitrotoluene	C2161-9379	46.3	46.3	ug/Kg	U
91-58-7	2-Chloronaphthalene	C2161-9379	54.2	54.2	ug/Kg	U
91-57-6	2-Methylnaphthalene	C2161-9379	44.6	44.6	ug/Kg	U
88-74-4	2-Nitroaniline	C2161-9379	58.5	58.5	ug/Kg	U
91-94-1	3,3'-Dichlorobenzidine	C2161-9379	54.2	54.2	ug/Kg	U
99-09-2	3-Nitroaniline	C2161-9379	19.3	19.3	ug/Kg	U
101-55-3	4-Bromophenylphenyl ether	C2161-9379	51.0	51.0	ug/Kg	U
106-47-8	4-Chloroaniline	C2161-9379	42.8	42.8	ug/Kg	U
7005-72-3	4-Chlorophenylphenyl ether	C2161-9379	43.7	43.7	ug/Kg	U
100-01-6	4-Nitroaniline	C2161-9379	110	110	ug/Kg	U
83-32-9	Acenaphthene	C2161-9379	47.3	47.3	ug/Kg	U
208-96-8	Acenaphthylene	C2161-9379	38.7	38.7	ug/Kg	U
120-12-7	Anthracene	C2161-9379	50.0	50.0	ug/Kg	U
56-55-3	Benzo[a]anthracene	C2161-9379	47.5	47.5	ug/Kg	U
50-32-8	Benzo[a]pyrene	C2161-9379	58.5	58.5	ug/Kg	U
205-99-2	3,4-Benzofluoranthene	C2161-9379	46.6	46.6	ug/Kg	U
191-24-2	Benzo[g,h,i]perylene	C2161-9379	85.8	85.8	ug/Kg	U
207-08-9	Benzo[k]fluoranthene	C2161-9379	85.5	85.5	ug/Kg	U
65-85-0	Benzoic acid	C2161-9379	6580	6580	ug/Kg	U
100-51-6	Benzyl alcohol	C2161-9379	66.3	66.3	ug/Kg	U
111-91-1	bis(2-chloroethoxy)methane	C2161-9379	46.5	46.5	ug/Kg	U
111-44-4	bis(2-chloroethyl)ether	C2161-9379	53.1	53.1	ug/Kg	U
108-60-1	bis(2-chloroisopropyl)ether	C2161-9379	41.2	41.2	ug/Kg	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2161-9379	73.6	73.6	ug/Kg	U
85-68-7	Butyl benzyl phthalate	C2161-9379	59.3	59.3	ug/Kg	U
86-74-8	Carbazole	C2161-9379	64.7	64.7	ug/Kg	U
218-01-9	Chrysene	C2161-9379	59.4	59.4	ug/Kg	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
84-74-2	Di-n-butyl phthalate	C2161-9379	63.3	63.3	ug/Kg	U
117-84-0	Di-n-octyl phthalate	C2161-9379	55.3	55.3	ug/Kg	U
53-70-3	Dibenzo[a,h]anthracene	C2161-9379	62.7	62.7	ug/Kg	U
132-64-9	Dibenzofuran	C2161-9379	37.5	37.5	ug/Kg	U
84-66-2	Diethyl phthalate	C2161-9379	73.5	73.5	ug/Kg	U
131-11-3	Dimethyl phthalate	C2161-9379	54.3	54.3	ug/Kg	U
206-44-0	Fluoranthene	C2161-9379	61.9	73.6	ug/Kg	J
86-73-7	Fluorene	C2161-9379	45.2	45.2	ug/Kg	U
118-74-1	Hexachlorobenzene	C2161-9379	48.1	48.1	ug/Kg	U
87-68-3	Hexachlorobutadiene	C2161-9379	44.9	44.9	ug/Kg	U
77-47-4	Hexachlorocyclopentadiene	C2161-9379	347	347	ug/Kg	U
67-72-1	Hexachloroethane	C2161-9379	50.0	50.0	ug/Kg	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9379	51.9	51.9	ug/Kg	U
78-59-1	Isophorone	C2161-9379	51.3	51.3	ug/Kg	U
621-64-7	Di-n-propylnitrosamine	C2161-9379	33.9	33.9	ug/Kg	U
86-30-6	Diphenylnitrosamine	C2161-9379	61.2	61.2	ug/Kg	U
91-20-3	Naphthalene	C2161-9379	45.2	45.2	ug/Kg	U
98-95-3	Nitrobenzene	C2161-9379	43.5	43.5	ug/Kg	U
85-01-8	Phenanthrene	C2161-9379	51.1	51.1	ug/Kg	U
129-00-0	Pyrene	C2161-9379	41.6	61.0	ug/Kg	J
110-86-1	Pyridine	C2161-9379	64.4	64.4	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
118-76-6	2,4,6-TRIBROMOPHENOL	C2161-9379	95.2 %	(19 - 122)	
321-60-8	2-FLUOROBIPHENYL	C2161-9379	67.4 %	(30 - 115)	
367-12-4	2-FLUOROPHENOL	C2161-9379	63.5 %	(25 - 121)	
4165-60-0	NITROBENZENE-D5	C2161-9379	64.8 %	(23 - 120)	
13127-88-3	PHENOL-D6	C2161-9379	63.9 %	(24 - 113)	
1718-51-0	TERPHENYL-D14	C2161-9379	85.3 %	(18 - 137)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 02/02/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2163-9422	4.60	4.60	ug/L	U
95-50-1	1,2-Dichlorobenzene	C2163-9422	3.55	3.55	ug/L	U
541-73-1	1,3-Dichlorobenzene	C2163-9422	4.10	4.10	ug/L	U
106-46-7	1,4-Dichlorobenzene	C2163-9422	3.70	3.70	ug/L	U
121-14-2	2,4-Dinitrotoluene	C2163-9422	3.10	3.10	ug/L	U
606-20-2	2,6-Dinitrotoluene	C2163-9422	4.90	4.90	ug/L	U
91-58-7	2-Chloronaphthalene	C2163-9422	4.60	4.60	ug/L	U
91-57-6	2-Methylnaphthalene	C2163-9422	4.10	4.10	ug/L	U
88-74-4	2-Nitroaniline	C2163-9422	3.85	3.85	ug/L	U
91-94-1	3,3'-Dichlorobenzidine	C2163-9422	3.40	3.40	ug/L	U
99-09-2	3-Nitroaniline	C2163-9422	3.00	3.00	ug/L	U
101-55-3	4-Bromophenylphenyl ether	C2163-9422	4.25	4.25	ug/L	U
106-47-8	4-Chloroaniline	C2163-9422	2.35	2.35	ug/L	U
7005-72-3	4-Chlorophenylphenyl ether	C2163-9422	4.60	4.60	ug/L	U
100-01-6	4-Nitroaniline	C2163-9422	5.35	5.35	ug/L	U
83-32-9	Acenaphthene	C2163-9422	5.10	5.10	ug/L	U
208-96-8	Acenaphthylene	C2163-9422	4.65	4.65	ug/L	U
120-12-7	Anthracene	C2163-9422	4.20	4.20	ug/L	U
56-55-3	Benzo[a]anthracene	C2163-9422	5.15	5.15	ug/L	U
50-32-8	Benzo[a]pyrene	C2163-9422	4.55	4.55	ug/L	U
205-99-2	3,4-Benzofluoranthene	C2163-9422	4.60	4.60	ug/L	U
191-24-2	Benzo[g,h,i]perylene	C2163-9422	5.25	5.25	ug/L	U
207-08-9	Benzo[k]fluoranthene	C2163-9422	5.20	5.20	ug/L	U
65-85-0	Benzoic acid	C2163-9422	51.5	51.5	ug/L	U
100-51-6	Benzyl alcohol	C2163-9422	2.40	2.40	ug/L	U
111-91-1	bis(2-chloroethoxy)methane	C2163-9422	4.75	4.75	ug/L	U
111-44-4	bis(2-chloroethyl)ether	C2163-9422	2.85	2.85	ug/L	U
108-60-1	bis(2-chloroisopropyl)ether	C2163-9422	3.85	3.85	ug/L	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2163-9422	7.20	7.20	ug/L	U
85-68-7	Butyl benzyl phthalate	C2163-9422	6.65	6.65	ug/L	U
86-74-8	Carbazole	C2163-9422	5.40	5.40	ug/L	U
218-01-9	Chrysene	C2163-9422	4.75	4.75	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 02/02/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
84-74-2	Di-n-butyl phthalate	C2163-9422	4.85	4.85	ug/L	U
117-84-0	Di-n-octyl phthalate	C2163-9422	5.55	5.55	ug/L	U
53-70-3	Dibenzo[a,h]anthracene	C2163-9422	4.35	4.35	ug/L	U
132-64-9	Dibenzofuran	C2163-9422	4.00	4.00	ug/L	U
84-66-2	Diethyl phthalate	C2163-9422	5.35	11.9	ug/L	J
131-11-3	Dimethyl phthalate	C2163-9422	5.10	5.10	ug/L	U
206-44-0	Fluoranthene	C2163-9422	4.30	4.30	ug/L	U
86-73-7	Fluorene	C2163-9422	4.55	4.55	ug/L	U
118-74-1	Hexachlorobenzene	C2163-9422	3.65	3.65	ug/L	U
87-68-3	Hexachlorobutadiene	C2163-9422	5.25	5.25	ug/L	U
77-47-4	Hexachlorocyclopentadiene	C2163-9422	1.90	1.90	ug/L	U
67-72-1	Hexachloroethane	C2163-9422	4.95	4.95	ug/L	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2163-9422	4.75	4.75	ug/L	U
78-59-1	Isophorone	C2163-9422	3.50	3.50	ug/L	U
621-64-7	Di-n-propylnitrosamine	C2163-9422	3.70	3.70	ug/L	U
86-30-6	Diphenylnitrosamine	C2163-9422	5.50	5.50	ug/L	U
91-20-3	Naphthalene	C2163-9422	4.35	4.35	ug/L	U
98-95-3	Nitrobenzene	C2163-9422	4.55	4.55	ug/L	U
85-01-8	Phenanthrene	C2163-9422	4.50	4.50	ug/L	U
129-00-0	Pyrene	C2163-9422	5.05	5.05	ug/L	U
110-86-1	Pyridine	C2163-9422	1.85	1.85	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2163-9422	84.2 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C2163-9422	8.8 %	(35 - 114)	D
1718-51-0	TERPHENYL-D14	C2163-9422	79.4 %	(33 - 141)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2163-9423	4.60	4.60	ug/L	U
95-50-1	1,2-Dichlorobenzene	C2163-9423	3.55	3.55	ug/L	U
541-73-1	1,3-Dichlorobenzene	C2163-9423	4.10	4.10	ug/L	U
106-46-7	1,4-Dichlorobenzene	C2163-9423	3.70	3.70	ug/L	U
121-14-2	2,4-Dinitrotoluene	C2163-9423	3.10	3.10	ug/L	U
606-20-2	2,6-Dinitrotoluene	C2163-9423	4.90	4.90	ug/L	U
91-58-7	2-Chloronaphthalene	C2163-9423	4.60	4.60	ug/L	U
91-57-6	2-Methylnaphthalene	C2164-9435	8.20	436	ug/L	
88-74-4	2-Nitroaniline	C2163-9423	3.85	3.85	ug/L	U
91-94-1	3,3'-Dichlorobenzidine	C2163-9423	3.40	3.40	ug/L	U
99-09-2	3-Nitroaniline	C2163-9423	3.00	3.00	ug/L	U
101-55-3	4-Bromophenylphenyl ether	C2163-9423	4.25	4.25	ug/L	U
106-47-8	4-Chloroaniline	C2163-9423	2.35	2.35	ug/L	U
7005-72-3	4-Chlorophenylphenyl ether	C2163-9423	4.60	4.60	ug/L	U
100-01-6	4-Nitroaniline	C2163-9423	5.35	5.35	ug/L	U
83-32-9	Acenaphthene	C2163-9423	5.10	22.1	ug/L	J
208-96-8	Acenaphthylene	C2163-9423	4.65	4.65	ug/L	U
120-12-7	Anthracene	C2163-9423	4.20	24.5	ug/L	J
56-55-3	Benzo[a]anthracene	C2163-9423	5.15	22.2	ug/L	J
50-32-8	Benzo[a]pyrene	C2163-9423	4.55	14.2	ug/L	J
205-99-2	3,4-Benzofluoranthene	C2163-9423	4.60	12.6	ug/L	J
191-24-2	Benzo[g,h,i]perylene	C2163-9423	5.25	6.63	ug/L	J
207-08-9	Benzo[k]fluoranthene	C2163-9423	5.20	13.1	ug/L	J
65-85-0	Benzoic acid	C2163-9423	51.5	51.5	ug/L	U
100-51-6	Benzyl alcohol	C2163-9423	2.40	2.40	ug/L	U
111-91-1	bis(2-chloroethoxy)methane	C2163-9423	4.75	4.75	ug/L	U
111-44-4	bis(2-chloroethyl)ether	C2163-9423	2.85	2.85	ug/L	U
108-60-1	bis(2-chloroisopropyl)ether	C2163-9423	3.85	3.85	ug/L	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2163-9423	7.20	8.39	ug/L	BJ
85-68-7	Butyl benzyl phthalate	C2163-9423	6.65	6.65	ug/L	U
86-74-8	Carbazole	C2163-9423	5.40	5.40	ug/L	U
218-01-9	Chrysene	C2163-9423	4.75	22.4	ug/L	J



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
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02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
84-74-2	Di-n-butyl phthalate	C2163-9423	4.85	4.85	ug/L	U
117-84-0	Di-n-octyl phthalate	C2163-9423	5.55	5.55	ug/L	U
53-70-3	Dibenzo[a,h]anthracene	C2163-9423	4.35	4.35	ug/L	U
132-64-9	Dibenzofuran	C2163-9423	4.00	22.9	ug/L	J
84-66-2	Diethyl phthalate	C2163-9423	5.35	6.03	ug/L	BJ
131-11-3	Dimethyl phthalate	C2163-9423	5.10	5.10	ug/L	U
206-44-0	Fluoranthene	C2163-9423	4.30	67.2	ug/L	
86-73-7	Fluorene	C2163-9423	4.55	46.0	ug/L	
118-74-1	Hexachlorobenzene	C2163-9423	3.65	3.65	ug/L	U
87-68-3	Hexachlorobutadiene	C2163-9423	5.25	5.25	ug/L	U
77-47-4	Hexachlorocyclopentadiene	C2163-9423	1.90	1.90	ug/L	U
67-72-1	Hexachloroethane	C2163-9423	4.95	4.95	ug/L	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2163-9423	4.75	6.56	ug/L	J
78-59-1	Isophorone	C2163-9423	3.50	3.50	ug/L	U
621-64-7	Di-n-propylnitrosamine	C2163-9423	3.70	3.70	ug/L	U
86-30-6	Diphenylnitrosamine	C2163-9423	5.50	5.50	ug/L	U
91-20-3	Naphthalene	C2163-9423	4.35	4.35	ug/L	U
98-95-3	Nitrobenzene	C2163-9423	4.55	4.55	ug/L	U
85-01-8	Phenanthrene	C2163-9423	4.50	57.2	ug/L	
129-00-0	Pyrene	C2163-9423	5.05	71.5	ug/L	
110-86-1	Pyridine	C2163-9423	1.85	1.85	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2163-9423	79.7 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C2163-9423	120.0 %	(35 - 114)	D
1718-51-0	TERPHENYL-D14	C2163-9423	63.2 %	(33 - 141)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2163-9424	4.60	4.60	ug/L	U
95-50-1	1,2-Dichlorobenzene	C2163-9424	3.55	3.55	ug/L	U
541-73-1	1,3-Dichlorobenzene	C2163-9424	4.10	4.10	ug/L	U
106-46-7	1,4-Dichlorobenzene	C2163-9424	3.70	3.70	ug/L	U
121-14-2	2,4-Dinitrotoluene	C2163-9424	3.10	3.10	ug/L	U
606-20-2	2,6-Dinitrotoluene	C2163-9424	4.90	4.90	ug/L	U
91-58-7	2-Chloronaphthalene	C2163-9424	4.60	4.60	ug/L	U
91-57-6	2-Methylnaphthalene	C2163-9424	4.10	4.10	ug/L	U
88-74-4	2-Nitroaniline	C2163-9424	3.85	3.85	ug/L	U
91-94-1	3,3'-Dichlorobenzidine	C2163-9424	3.40	3.40	ug/L	U
99-09-2	3-Nitroaniline	C2163-9424	3.00	3.00	ug/L	U
101-55-3	4-Bromophenylphenyl ether	C2163-9424	4.25	4.25	ug/L	U
106-47-8	4-Chloroaniline	C2163-9424	2.35	2.35	ug/L	U
7005-72-3	4-Chlorophenylphenyl ether	C2163-9424	4.60	4.60	ug/L	U
100-01-6	4-Nitroaniline	C2163-9424	5.35	5.35	ug/L	U
83-32-9	Acenaphthene	C2163-9424	5.10	5.10	ug/L	U
208-96-8	Acenaphthylene	C2163-9424	4.65	4.65	ug/L	U
120-12-7	Anthracene	C2163-9424	4.20	4.20	ug/L	U
56-55-3	Benzo[a]anthracene	C2163-9424	5.15	5.15	ug/L	U
50-32-8	Benzo[a]pyrene	C2163-9424	4.55	4.55	ug/L	U
205-99-2	3,4-Benzofluoranthene	C2163-9424	4.60	4.60	ug/L	U
191-24-2	Benzo[g,h,i]perylene	C2163-9424	5.25	5.25	ug/L	U
207-08-9	Benzo[k]fluoranthene	C2163-9424	5.20	5.20	ug/L	U
65-85-0	Benzoic acid	C2163-9424	51.5	51.5	ug/L	U
100-51-6	Benzyl alcohol	C2163-9424	2.40	2.40	ug/L	U
111-91-1	bis(2-chloroethoxy)methane	C2163-9424	4.75	4.75	ug/L	U
111-44-4	bis(2-chloroethyl)ether	C2163-9424	2.85	2.85	ug/L	U
108-60-1	bis(2-chloroisopropyl)ether	C2163-9424	3.85	3.85	ug/L	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2163-9424	7.20	8.75	ug/L	BJ
85-68-7	Butyl benzyl phthalate	C2163-9424	6.65	6.65	ug/L	U
86-74-8	Carbazole	C2163-9424	5.40	5.40	ug/L	U
218-01-9	Chrysene	C2163-9424	4.75	4.75	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
84-74-2	Di-n-butyl phthalate	C2163-9424	4.85	6.14	ug/L	BJ
117-84-0	Di-n-octyl phthalate	C2163-9424	5.55	5.55	ug/L	U
53-70-3	Dibenzo[a,h]anthracene	C2163-9424	4.35	4.35	ug/L	U
132-64-9	Dibenzofuran	C2163-9424	4.00	4.00	ug/L	U
84-66-2	Diethyl phthalate	C2163-9424	5.35	9.78	ug/L	J
131-11-3	Dimethyl phthalate	C2163-9424	5.10	5.10	ug/L	U
206-44-0	Fluoranthene	C2163-9424	4.30	4.30	ug/L	U
86-73-7	Fluorene	C2163-9424	4.55	4.55	ug/L	U
118-74-1	Hexachlorobenzene	C2163-9424	3.65	3.65	ug/L	U
87-68-3	Hexachlorobutadiene	C2163-9424	5.25	5.25	ug/L	U
77-47-4	Hexachlorocyclopentadiene	C2163-9424	1.90	1.90	ug/L	U
67-72-1	Hexachloroethane	C2163-9424	4.95	4.95	ug/L	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2163-9424	4.75	4.75	ug/L	U
78-59-1	Isophorone	C2163-9424	3.50	3.50	ug/L	U
621-64-7	Di-n-propylnitrosamine	C2163-9424	3.70	3.70	ug/L	U
86-30-6	Diphenylnitrosamine	C2163-9424	5.50	5.50	ug/L	U
91-20-3	Naphthalene	C2163-9424	4.35	4.35	ug/L	U
98-95-3	Nitrobenzene	C2163-9424	4.55	4.55	ug/L	U
85-01-8	Phenanthrene	C2163-9424	4.50	4.50	ug/L	U
129-00-0	Pyrene	C2163-9424	5.05	5.05	ug/L	U
110-86-1	Pyridine	C2163-9424	1.85	1.85	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2163-9424	67.9 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C2163-9424	67.5 %	(35 - 114)	
1718-51-0	TERPHENYL-D14	C2163-9424	80.5 %	(33 - 141)	



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-13

Client Sample ID: GP-07 (GW)

Collected: 01/23/2009 15:21

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
120-82-1	1,2,4-Trichlorobenzene	C2163-9425	4.60	4.60	ug/L	U
95-50-1	1,2-Dichlorobenzene	C2163-9425	3.55	3.55	ug/L	U
541-73-1	1,3-Dichlorobenzene	C2163-9425	4.10	4.10	ug/L	U
106-46-7	1,4-Dichlorobenzene	C2163-9425	3.70	3.70	ug/L	U
121-14-2	2,4-Dinitrotoluene	C2163-9425	3.10	3.10	ug/L	U
606-20-2	2,6-Dinitrotoluene	C2163-9425	4.90	4.90	ug/L	U
91-58-7	2-Chloronaphthalene	C2163-9425	4.60	4.60	ug/L	U
91-57-6	2-Methylnaphthalene	C2163-9425	4.10	4.10	ug/L	U
88-74-4	2-Nitroaniline	C2163-9425	3.85	3.85	ug/L	U
91-94-1	3,3'-Dichlorobenzidine	C2163-9425	3.40	3.40	ug/L	U
99-09-2	3-Nitroaniline	C2163-9425	3.00	3.00	ug/L	U
101-55-3	4-Bromophenylphenyl ether	C2163-9425	4.25	4.25	ug/L	U
106-47-8	4-Chloroaniline	C2163-9425	2.35	2.35	ug/L	U
7005-72-3	4-Chlorophenylphenyl ether	C2163-9425	4.60	4.60	ug/L	U
100-01-6	4-Nitroaniline	C2163-9425	5.35	5.35	ug/L	U
83-32-9	Acenaphthene	C2163-9425	5.10	5.10	ug/L	U
208-96-8	Acenaphthylene	C2163-9425	4.65	4.65	ug/L	U
120-12-7	Anthracene	C2163-9425	4.20	4.20	ug/L	U
56-55-3	Benzo[a]anthracene	C2163-9425	5.15	5.15	ug/L	U
50-32-8	Benzo[a]pyrene	C2163-9425	4.55	4.55	ug/L	U
205-99-2	3,4-Benzofluoranthene	C2163-9425	4.60	4.60	ug/L	U
191-24-2	Benzo[g,h,i]perylene	C2163-9425	5.25	5.25	ug/L	U
207-08-9	Benzo[k]fluoranthene	C2163-9425	5.20	5.20	ug/L	U
65-85-0	Benzoic acid	C2163-9425	51.5	51.5	ug/L	U
100-51-6	Benzyl alcohol	C2163-9425	2.40	2.40	ug/L	U
111-91-1	bis(2-chloroethoxy)methane	C2163-9425	4.75	4.75	ug/L	U
111-44-4	bis(2-chloroethyl)ether	C2163-9425	2.85	2.85	ug/L	U
108-60-1	bis(2-chloroisopropyl)ether	C2163-9425	3.85	3.85	ug/L	U
117-81-7	bis(2-Ethylhexyl)phthalate	C2163-9425	7.20	10.1	ug/L	BJ
85-68-7	Butyl benzyl phthalate	C2163-9425	6.65	6.65	ug/L	U
86-74-8	Carbazole	C2163-9425	5.40	5.40	ug/L	U
218-01-9	Chrysene	C2163-9425	4.75	4.75	ug/L	U



Environmental Testing Laboratories, Inc.

208 Route 109, Farmingdale NY 11735
Phone - 631-249-1456 Fax - 631-249-8344

02/04/2009

Semivolatile Base Neutral Compounds - EPA 8270C

Sample: 0901338-13

Client Sample ID: GP-07 (GW)

Collected: 01/23/2009 15:21

Matrix: Liquid

Type: Grab

Remarks: See Case Narrative

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/28/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
84-74-2	Di-n-butyl phthalate	C2163-9425	4.85	6.66	ug/L	BJ
117-84-0	Di-n-octyl phthalate	C2163-9425	5.55	5.55	ug/L	U
53-70-3	Dibenzo[a,h]anthracene	C2163-9425	4.35	4.35	ug/L	U
132-64-9	Dibenzofuran	C2163-9425	4.00	4.00	ug/L	U
84-66-2	Diethyl phthalate	C2163-9425	5.35	6.27	ug/L	J
131-11-3	Dimethyl phthalate	C2163-9425	5.10	5.10	ug/L	U
206-44-0	Fluoranthene	C2163-9425	4.30	4.30	ug/L	U
86-73-7	Fluorene	C2163-9425	4.55	4.55	ug/L	U
118-74-1	Hexachlorobenzene	C2163-9425	3.65	3.65	ug/L	U
87-68-3	Hexachlorobutadiene	C2163-9425	5.25	5.25	ug/L	U
77-47-4	Hexachlorocyclopentadiene	C2163-9425	1.90	1.90	ug/L	U
67-72-1	Hexachloroethane	C2163-9425	4.95	4.95	ug/L	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2163-9425	4.75	4.75	ug/L	U
78-59-1	Isophorone	C2163-9425	3.50	3.50	ug/L	U
621-64-7	Di-n-propylnitrosamine	C2163-9425	3.70	3.70	ug/L	U
86-30-6	Diphenylnitrosamine	C2163-9425	5.50	5.50	ug/L	U
91-20-3	Naphthalene	C2163-9425	4.35	4.35	ug/L	U
98-95-3	Nitrobenzene	C2163-9425	4.55	4.55	ug/L	U
85-01-8	Phenanthrene	C2163-9425	4.50	4.50	ug/L	U
129-00-0	Pyrene	C2163-9425	5.05	5.05	ug/L	U
110-86-1	Pyridine	C2163-9425	1.85	1.85	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2163-9425	82.8 %	(43 - 116)	
4165-60-0	NITROBENZENE-D5	C2163-9425	83.6 %	(35 - 114)	
1718-51-0	TERPHENYL-D14	C2163-9425	74.6 %	(33 - 141)	



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02/04/2009

STARS Semivolatiles by SW846 8270C

Sample: 0901338-4

Client Sample ID: GP-04 (6-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:45

% Solid: 79.6%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
83-32-9	Acenaphthene	C2161-9382	52.9	182	ug/Kg	J
208-96-8	Acenaphthylene	C2161-9382	43.2	363	ug/Kg	J
120-12-7	Anthracene	C2161-9382	55.9	1130	ug/Kg	
56-55-3	Benzo[a]anthracene	C2161-9382	53.1	4490	ug/Kg	
50-32-8	Benzo[a]pyrene	C2161-9382	65.5	4550	ug/Kg	
205-99-2	3,4-Benzofluoranthene	C2161-9382	52.1	4110	ug/Kg	
191-24-2	Benzo[g,h,i]perylene	C2161-9382	96.0	2500	ug/Kg	
207-08-9	Benzo[k]fluoranthene	C2161-9382	95.6	3880	ug/Kg	
218-01-9	Chrysene	C2161-9382	66.5	4970	ug/Kg	
53-70-3	Dibenzo[a,h]anthracene	C2161-9382	70.1	723	ug/Kg	
206-44-0	Fluoranthene	C2161-9384	138	11400	ug/Kg	
86-73-7	Fluorene	C2161-9382	50.5	271	ug/Kg	J
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9382	58.0	2380	ug/Kg	
91-20-3	Naphthalene	C2161-9382	50.5	127	ug/Kg	J
85-01-8	Phenanthrene	C2161-9382	57.2	6190	ug/Kg	
129-00-0	Pyrene	C2161-9384	93.0	10600	ug/Kg	

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2161-9382	71.2 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2161-9382	69.7 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2161-9382	78.1 %	(18 - 137)	



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02/04/2009

STARS Semivolatiles by SW846 8270C

Sample: 0901338-5

Client Sample ID: GP-05 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:57

% Solid: 84.3%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
83-32-9	Acenaphthene	C2161-9383	49.9	49.9	ug/Kg	U
208-96-8	Acenaphthylene	C2161-9383	40.8	40.8	ug/Kg	U
120-12-7	Anthracene	C2161-9383	52.8	52.8	ug/Kg	U
56-55-3	Benzo[a]anthracene	C2161-9383	50.2	79.1	ug/Kg	J
50-32-8	Benzo[a]pyrene	C2161-9383	61.8	77.2	ug/Kg	J
205-99-2	3,4-Benzofluoranthene	C2161-9383	49.2	71.7	ug/Kg	J
191-24-2	Benzo[g,h,i]perylene	C2161-9383	90.6	131	ug/Kg	J
207-08-9	Benzo[k]fluoranthene	C2161-9383	90.3	90.3	ug/Kg	U
218-01-9	Chrysene	C2161-9383	62.8	83.8	ug/Kg	J
53-70-3	Dibenzo[a,h]anthracene	C2161-9383	66.2	66.2	ug/Kg	U
206-44-0	Fluoranthene	C2161-9383	65.4	173	ug/Kg	J
86-73-7	Fluorene	C2161-9383	47.7	47.7	ug/Kg	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9383	54.8	66.0	ug/Kg	J
91-20-3	Naphthalene	C2161-9383	47.7	47.7	ug/Kg	U
85-01-8	Phenanthrene	C2161-9383	54.0	122	ug/Kg	J
129-00-0	Pyrene	C2161-9383	43.9	149	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2161-9383	76.6 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2161-9383	70.4 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2161-9383	82.5 %	(18 - 137)	



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02/04/2009

STARS Semivolatiles by SW846 8270C

Sample: 0901338-6

Client Sample ID: GP-06 (6-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 14:14

% Solid: 90.1%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
83-32-9	Acenaphthene	C2161-9380	46.7	46.7	ug/Kg	U
208-96-8	Acenaphthylene	C2161-9380	38.2	38.2	ug/Kg	U
120-12-7	Anthracene	C2161-9380	49.4	62.9	ug/Kg	J
56-55-3	Benzo[a]anthracene	C2161-9380	46.9	129	ug/Kg	J
50-32-8	Benzo[a]pyrene	C2161-9380	57.8	105	ug/Kg	J
205-99-2	3,4-Benzofluoranthene	C2161-9380	46.1	86.1	ug/Kg	J
191-24-2	Benzo[g,h,i]perylene	C2161-9380	84.8	84.8	ug/Kg	U
207-08-9	Benzo[k]fluoranthene	C2161-9380	84.5	91.2	ug/Kg	J
218-01-9	Chrysene	C2161-9380	58.7	126	ug/Kg	J
53-70-3	Dibenzo[a,h]anthracene	C2161-9380	61.9	61.9	ug/Kg	U
206-44-0	Fluoranthene	C2161-9380	61.2	299	ug/Kg	J
86-73-7	Fluorene	C2161-9380	44.6	44.6	ug/Kg	U
193-39-5	Indeno[1,2,3-cd]pyrene	C2161-9380	51.3	51.3	ug/Kg	U
91-20-3	Naphthalene	C2161-9380	44.6	44.6	ug/Kg	U
85-01-8	Phenanthrene	C2161-9380	50.5	257	ug/Kg	J
129-00-0	Pyrene	C2161-9380	41.1	261	ug/Kg	J

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
321-60-8	2-FLUOROBIPHENYL	C2161-9380	65.3 %	(30 - 115)	
4165-60-0	NITROBENZENE-D5	C2161-9380	63.1 %	(23 - 120)	
1718-51-0	TERPHENYL-D14	C2161-9380	80.8 %	(18 - 137)	



Environmental Testing Laboratories, Inc.

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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	Aroclor 1016	G1663-16	14.6	14.6	ug/Kg	U
11104-28-2	Aroclor 1221	G1663-16	14.6	14.6	ug/Kg	U
11141-16-5	Aroclor 1232	G1663-16	14.6	14.6	ug/Kg	U
53469-21-9	Aroclor 1242	G1663-16	14.6	14.6	ug/Kg	U
12672-29-6	Aroclor 1248	G1663-16	14.6	14.6	ug/Kg	U
11097-69-1	Aroclor 1254	G1663-16	14.6	14.6	ug/Kg	U
11096-82-5	Aroclor 1260	G1663-16	14.7	14.7	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-16	68.3 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-16	80.7 %	(30 - 150)	



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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	Aroclor 1016	G1663-17	14.0	14.0	ug/Kg	U
11104-28-2	Aroclor 1221	G1663-17	14.0	14.0	ug/Kg	U
11141-16-5	Aroclor 1232	G1663-17	14.0	14.0	ug/Kg	U
53469-21-9	Aroclor 1242	G1663-17	14.0	14.0	ug/Kg	U
12672-29-6	Aroclor 1248	G1663-17	14.0	14.0	ug/Kg	U
11097-69-1	Aroclor 1254	G1663-17	14.0	14.0	ug/Kg	U
11096-82-5	Aroclor 1260	G1663-17	14.1	14.1	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-17	68.6 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-17	66.0 %	(30 - 150)	



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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
12674-11-2	Aroclor 1016	G1663-18	14.0	14.0	ug/Kg	U
11104-28-2	Aroclor 1221	G1663-18	14.0	14.0	ug/Kg	U
11141-16-5	Aroclor 1232	G1663-18	14.0	14.0	ug/Kg	U
53469-21-9	Aroclor 1242	G1663-18	14.0	14.0	ug/Kg	U
12672-29-6	Aroclor 1248	G1663-18	14.0	14.0	ug/Kg	U
11097-69-1	Aroclor 1254	G1663-18	14.0	14.0	ug/Kg	U
11096-82-5	Aroclor 1260	G1663-18	14.2	14.2	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-18	86.6 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-18	84.3 %	(30 - 150)	



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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
12674-11-2	Aroclor 1016	G1663-23	0.40	0.40	ug/L	U
11104-28-2	Aroclor 1221	G1663-23	0.15	0.15	ug/L	U
11141-16-5	Aroclor 1232	G1663-23	0.55	0.55	ug/L	U
53469-21-9	Aroclor 1242	G1663-23	0.55	0.55	ug/L	U
12672-29-6	Aroclor 1248	G1663-23	0.45	0.45	ug/L	U
11097-69-1	Aroclor 1254	G1663-23	0.20	0.20	ug/L	U
11096-82-5	Aroclor 1260	G1663-23	0.40	0.40	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-23	81.2 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-23	86.5 %	(30 - 150)	



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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
12674-11-2	Aroclor 1016	G1663-24	0.40	0.40	ug/L	U
11104-28-2	Aroclor 1221	G1663-24	0.15	0.15	ug/L	U
11141-16-5	Aroclor 1232	G1663-24	0.55	0.55	ug/L	U
53469-21-9	Aroclor 1242	G1663-24	0.55	0.55	ug/L	U
12672-29-6	Aroclor 1248	G1663-24	0.45	0.45	ug/L	U
11097-69-1	Aroclor 1254	G1663-24	0.20	0.20	ug/L	U
11096-82-5	Aroclor 1260	G1663-24	0.40	0.40	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-24	89.2 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-24	81.7 %	(30 - 150)	



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02/04/2009

PCB Aroclors by SW846 8082/EPA 608

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
12674-11-2	Aroclor 1016	G1663-25	0.40	0.40	ug/L	U
11104-28-2	Aroclor 1221	G1663-25	0.15	0.15	ug/L	U
11141-16-5	Aroclor 1232	G1663-25	0.55	0.55	ug/L	U
53469-21-9	Aroclor 1242	G1663-25	0.55	0.55	ug/L	U
12672-29-6	Aroclor 1248	G1663-25	0.45	0.45	ug/L	U
11097-69-1	Aroclor 1254	G1663-25	0.20	0.20	ug/L	U
11096-82-5	Aroclor 1260	G1663-25	0.40	0.40	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	G1663-25	72.3 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	G1663-25	76.0 %	(30 - 150)	



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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
72-54-8	4,4'-DDD	L1064-17	0.52	0.52	ug/Kg	U
72-55-9	4,4'-DDE	L1064-17	1.25	1.25	ug/Kg	U
50-29-3	4,4'-DDT	L1064-17	0.63	0.63	ug/Kg	U
309-00-2	Aldrin	L1064-17	1.22	1.22	ug/Kg	U
319-84-6	alpha-BHC	L1064-17	0.77	0.77	ug/Kg	U
5103-71-9	alpha-Chlordane	L1064-17	1.04	1.04	ug/Kg	U
319-85-7	beta-BHC	L1064-17	0.63	0.63	ug/Kg	U
57-74-9	Chlordane	L1064-17	8.10	8.10	ug/Kg	U
319-86-8	delta-BHC	L1064-17	1.32	1.32	ug/Kg	U
60-57-1	Dieldrin	L1064-17	1.33	1.33	ug/Kg	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-17	1.19	1.19	ug/Kg	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-17	0.94	0.94	ug/Kg	U
1031-07-8	Endosulfan Sulfate	L1064-17	0.84	0.84	ug/Kg	U
72-20-8	Endrin	L1064-17	1.20	1.20	ug/Kg	U
7421-36-3	Endrin Aldehyde	L1064-17	0.87	0.87	ug/Kg	U
53494-70-5	Endrin ketone	L1064-17	1.11	1.11	ug/Kg	U
58-89-9	gamma-BHC (Lindane)	L1064-17	0.97	0.97	ug/Kg	U
5103-74-2	gamma-chlordane	L1064-17	1.23	1.23	ug/Kg	U
76-44-8	Heptachlor	L1064-17	1.08	1.08	ug/Kg	U
1024-57-3	Heptachlor epoxide	L1064-17	1.15	1.15	ug/Kg	U
72-43-5	Methoxychlor	L1064-17	1.02	1.02	ug/Kg	U
8001-35-2	Toxaphene	L1064-17	42.5	42.5	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIIPHENYL	L1064-17	85.6 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-17	62.4 %	(30 - 150)	



Environmental Testing Laboratories, Inc.

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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
72-54-8	4,4'-DDD	L1064-18	0.50	0.50	ug/Kg	U
72-55-9	4,4'-DDE	L1064-18	1.20	1.20	ug/Kg	U
50-29-3	4,4'-DDT	L1064-18	0.60	0.60	ug/Kg	U
309-00-2	Aldrin	L1064-18	1.17	1.17	ug/Kg	U
319-84-6	alpha-BHC	L1064-18	0.74	0.74	ug/Kg	U
5103-71-9	alpha-Chlordane	L1064-18	1.00	1.00	ug/Kg	U
319-85-7	beta-BHC	L1064-18	0.60	0.60	ug/Kg	U
57-74-9	Chlordane	L1064-18	7.79	7.79	ug/Kg	U
319-86-8	delta-BHC	L1064-18	1.26	1.26	ug/Kg	U
60-57-1	Dieldrin	L1064-18	1.28	1.28	ug/Kg	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-18	1.14	1.14	ug/Kg	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-18	0.91	0.91	ug/Kg	U
1031-07-8	Endosulfan Sulfate	L1064-18	0.81	0.81	ug/Kg	U
72-20-8	Endrin	L1064-18	1.15	1.15	ug/Kg	U
7421-36-3	Endrin Aldehyde	L1064-18	0.84	0.84	ug/Kg	U
53494-70-5	Endrin ketone	L1064-18	1.06	1.06	ug/Kg	U
58-89-9	gamma-BHC (Lindane)	L1064-18	0.93	0.93	ug/Kg	U
5103-74-2	gamma-chlordane	L1064-18	1.19	1.19	ug/Kg	U
76-44-8	Heptachlor	L1064-18	1.04	1.04	ug/Kg	U
1024-57-3	Heptachlor epoxide	L1064-18	1.11	1.11	ug/Kg	U
72-43-5	Methoxychlor	L1064-18	0.98	0.98	ug/Kg	U
8001-35-2	Toxaphene	L1064-18	40.8	40.8	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	L1064-18	76.1 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-18	34.9 %	(30 - 150)	



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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration*	Units	Q
72-54-8	4,4'-DDD	L1064-19	0.51	0.51	ug/Kg	U
72-55-9	4,4'-DDE	L1064-19	1.20	1.20	ug/Kg	U
50-29-3	4,4'-DDT	L1064-19	0.61	0.61	ug/Kg	U
309-00-2	Aldrin	L1064-19	1.18	1.18	ug/Kg	U
319-84-6	alpha-BHC	L1064-19	0.74	0.74	ug/Kg	U
5103-71-9	alpha-Chlordane	L1064-19	1.00	1.00	ug/Kg	U
319-85-7	beta-BHC	L1064-19	0.61	0.61	ug/Kg	U
57-74-9	Chlordane	L1064-19	7.82	7.82	ug/Kg	U
319-86-8	delta-BHC	L1064-19	1.27	1.27	ug/Kg	U
60-57-1	Dieldrin	L1064-19	1.28	1.28	ug/Kg	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-19	1.15	1.15	ug/Kg	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-19	0.91	0.91	ug/Kg	U
1031-07-8	Endosulfan Sulfate	L1064-19	0.81	0.81	ug/Kg	U
72-20-8	Endrin	L1064-19	1.16	1.16	ug/Kg	U
7421-36-3	Endrin Aldehyde	L1064-19	0.84	0.84	ug/Kg	U
53494-70-5	Endrin ketone	L1064-19	1.07	1.07	ug/Kg	U
58-89-9	gamma-BHC (Lindane)	L1064-19	0.93	0.93	ug/Kg	U
5103-74-2	gamma-chlordane	L1064-19	1.19	1.19	ug/Kg	U
76-44-8	Heptachlor	L1064-19	1.04	1.04	ug/Kg	U
1024-57-3	Heptachlor epoxide	L1064-19	1.11	1.11	ug/Kg	U
72-43-5	Methoxychlor	L1064-19	0.99	0.99	ug/Kg	U
8001-35-2	Toxaphene	L1064-19	41.0	41.0	ug/Kg	U

* Results are reported on a dry weight basis

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	L1064-19	76.9 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-19	57.9 %	(30 - 150)	



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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
72-54-8	4,4'-DDD	L1064-20	0.0065	0.0065	ug/L	U
72-55-9	4,4'-DDE	L1064-20	0.0075	0.0075	ug/L	U
50-29-3	4,4'-DDT	L1064-20	0.0070	0.0070	ug/L	U
309-00-2	Aldrin	L1064-20	0.0055	0.0055	ug/L	U
319-84-6	alpha-BHC	L1064-20	0.0046	0.0046	ug/L	U
5103-71-9	alpha-Chlordane	L1064-20	0.0060	0.0060	ug/L	U
319-85-7	beta-BHC	L1064-20	0.0075	0.0075	ug/L	U
57-74-9	Chlordane	L1064-20	0.60	0.60	ug/L	U
319-86-8	delta-BHC	L1064-20	0.0065	0.0065	ug/L	U
60-57-1	Dieldrin	L1064-20	0.0055	0.0055	ug/L	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-20	0.0065	0.0065	ug/L	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-20	0.0075	0.0075	ug/L	U
1031-07-8	Endosulfan Sulfate	L1064-20	0.0070	0.0070	ug/L	U
72-20-8	Endrin	L1064-20	0.0070	0.0070	ug/L	U
7421-36-3	Endrin Aldehyde	L1064-20	0.0050	0.0050	ug/L	U
53494-70-5	Endrin ketone	L1064-20	0.0070	0.0070	ug/L	U
58-89-9	gamma-BHC (Lindane)	L1064-20	0.0044	0.0044	ug/L	U
5103-74-2	gamma-chlordane	L1064-20	0.0065	0.0065	ug/L	U
76-44-8	Heptachlor	L1064-20	0.0060	0.0060	ug/L	U
1024-57-3	Heptachlor epoxide	L1064-20	0.0065	0.0065	ug/L	U
72-43-5	Methoxychlor	L1064-20	0.0070	0.0070	ug/L	U
8001-35-2	Toxaphene	L1064-20	1.95	1.95	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	L1064-20	74.3 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-20	69.4 %	(30 - 150)	



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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
72-54-8	4,4'-DDD	L1064-21	0.0065	0.0065	ug/L	U
72-55-9	4,4'-DDE	L1064-21	0.0075	0.0075	ug/L	U
50-29-3	4,4'-DDT	L1064-21	0.0070	0.0070	ug/L	U
309-00-2	Aldrin	L1064-21	0.0055	0.0055	ug/L	U
319-84-6	alpha-BHC	L1064-21	0.0046	0.0046	ug/L	U
5103-71-9	alpha-Chlordane	L1064-21	0.0060	0.0060	ug/L	U
319-85-7	beta-BHC	L1064-21	0.0075	0.0075	ug/L	U
57-74-9	Chlordane	L1064-21	0.60	0.60	ug/L	U
319-86-8	delta-BHC	L1064-21	0.0065	0.0065	ug/L	U
60-57-1	Dieldrin	L1064-21	0.0055	0.0055	ug/L	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-21	0.0065	0.0065	ug/L	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-21	0.0075	0.0075	ug/L	U
1031-07-8	Endosulfan Sulfate	L1064-21	0.0070	0.0070	ug/L	U
72-20-8	Endrin	L1064-21	0.0070	0.0070	ug/L	U
7421-36-3	Endrin Aldehyde	L1064-21	0.0050	0.0050	ug/L	U
53494-70-5	Endrin ketone	L1064-21	0.0070	0.0070	ug/L	U
58-89-9	gamma-BHC (Lindane)	L1064-21	0.0044	0.0044	ug/L	U
5103-74-2	gamma-chlordane	L1064-21	0.0065	0.0065	ug/L	U
76-44-8	Heptachlor	L1064-21	0.0060	0.0060	ug/L	U
1024-57-3	Heptachlor epoxide	L1064-21	0.0065	0.0065	ug/L	U
72-43-5	Methoxychlor	L1064-21	0.0070	0.0070	ug/L	U
8001-35-2	Toxaphene	L1064-21	1.95	1.95	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	L1064-21	75.4 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-21	54.9 %	(30 - 150)	



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02/04/2009

Pesticide Compounds -EPA 608/SW846 8081A

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	File ID	MDL	Concentration	Units	Q
72-54-8	4,4'-DDD	L1064-22	0.0065	0.0065	ug/L	U
72-55-9	4,4'-DDE	L1064-22	0.0075	0.0075	ug/L	U
50-29-3	4,4'-DDT	L1064-22	0.0070	0.0070	ug/L	U
309-00-2	Aldrin	L1064-22	0.0055	0.0055	ug/L	U
319-84-6	alpha-BHC	L1064-22	0.0046	0.0046	ug/L	U
5103-71-9	alpha-Chlordane	L1064-22	0.0060	0.0060	ug/L	U
319-85-7	beta-BHC	L1064-22	0.0075	0.0075	ug/L	U
57-74-9	Chlordane	L1064-22	0.60	0.60	ug/L	U
319-86-8	delta-BHC	L1064-22	0.0065	0.0065	ug/L	U
60-57-1	Dieldrin	L1064-22	0.0055	0.0055	ug/L	U
959-98-8	Endosulfan I (alpha-Endosulfan)	L1064-22	0.0065	0.0065	ug/L	U
33213-65-9	Endosulfan II (beta-Endosulfan)	L1064-22	0.0075	0.0075	ug/L	U
1031-07-8	Endosulfan Sulfate	L1064-22	0.0070	0.0070	ug/L	U
72-20-8	Endrin	L1064-22	0.0070	0.0070	ug/L	U
7421-36-3	Endrin Aldehyde	L1064-22	0.0050	0.0050	ug/L	U
53494-70-5	Endrin ketone	L1064-22	0.0070	0.0070	ug/L	U
58-89-9	gamma-BHC (Lindane)	L1064-22	0.0044	0.0044	ug/L	U
5103-74-2	gamma-chlordane	L1064-22	0.0065	0.0065	ug/L	U
76-44-8	Heptachlor	L1064-22	0.0060	0.0060	ug/L	U
1024-57-3	Heptachlor epoxide	L1064-22	0.0065	0.0065	ug/L	U
72-43-5	Methoxychlor	L1064-22	0.0070	0.0070	ug/L	U
8001-35-2	Toxaphene	L1064-22	1.95	1.95	ug/L	U

Surrogate Results

Cas No	Analyte	File ID	% Recovery	QC Limits	Q
2051-24-3	DECACHLOROBIPHENYL	L1064-22	77.1 %	(30 - 150)	
877-09-8	TETRACHLORO M-XYLENE	L1064-22	69.5 %	(30 - 150)	



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02/04/2009

Dissolved Mercury by SW846 7470/7471/245.1

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.00014	0.00026	mg/L	

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.00014	0.00026	mg/L	

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000070	0.000096	mg/L	



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02/04/2009

Mercury by SW846 7470/7471/EPA 245.1

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.018	0.20	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.013	0.028	mg/Kg	

* Results are reported on a dry weight basis

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7439-97-6	Mercury	0.011	0.093	mg/Kg	

* Results are reported on a dry weight basis



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02/04/2009

Mercury by SW846 7470/7471/EPA 245.1

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000070	0.00040	mg/L	

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000070	0.0013	mg/L	

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7439-97-6	Mercury	0.000070	0.00041	mg/L	



Environmental Testing Laboratories, Inc.

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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-1

Client Sample ID: GP-01 (8-10')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 10:20

% Solid: 85.9%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7429-90-5	Aluminum	1.46	6660	mg/Kg	
7440-36-0	Antimony	0.23	0.23	mg/Kg	U
7440-38-2	Arsenic	0.39	3.57	mg/Kg	
7440-39-3	Barium	0.046	79.9	mg/Kg	
7440-41-7	Beryllium	0.023	0.023	mg/Kg	U
7440-43-9	Cadmium	0.035	0.035	mg/Kg	U
7440-70-2	Calcium	3.00	10200	mg/Kg	
7440-47-3	Chromium	0.19	18.3	mg/Kg	
7440-48-4	Cobalt	0.046	6.31	mg/Kg	
7440-50-8	Copper	0.34	41.0	mg/Kg	
7439-89-6	Iron	2.09	14200	mg/Kg	
7439-92-1	Lead	0.20	166	mg/Kg	
7439-95-4	Magnesium	3.08	2980	mg/Kg	
7439-96-5	Manganese	0.093	232	mg/Kg	
7440-02-0	Nickel	0.058	13.2	mg/Kg	
7440-09-7	Potassium	6.06	958	mg/Kg	
7782-49-2	Selenium	0.50	0.50	mg/Kg	U
7440-22-4	Silver	0.12	0.12	mg/Kg	U
7440-23-5	Sodium	2.52	194	mg/Kg	
7440-28-0	Thallium	0.23	0.23	mg/Kg	U
7440-62-2	Vanadium	0.058	15.9	mg/Kg	
7440-66-6	Zinc	0.51	347	mg/Kg	

* Results are reported on a dry weight basis



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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-2

Client Sample ID: GP-02 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 11:55

% Solid: 89.4%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7429-90-5	Aluminum	1.39	6710	mg/Kg	
7440-36-0	Antimony	0.22	0.22	mg/Kg	U
7440-38-2	Arsenic	0.38	4.59	mg/Kg	
7440-39-3	Barium	0.044	39.1	mg/Kg	
7440-41-7	Beryllium	0.022	0.022	mg/Kg	U
7440-43-9	Cadmium	0.033	0.033	mg/Kg	U
7440-70-2	Calcium	2.86	2270	mg/Kg	
7440-47-3	Chromium	0.18	14.4	mg/Kg	
7440-48-4	Cobalt	0.044	6.67	mg/Kg	
7440-50-8	Copper	0.32	22.6	mg/Kg	
7439-89-6	Iron	1.99	16100	mg/Kg	
7439-92-1	Lead	0.19	44.5	mg/Kg	
7439-95-4	Magnesium	2.93	2130	mg/Kg	
7439-96-5	Manganese	0.088	244	mg/Kg	
7440-02-0	Nickel	0.055	12.9	mg/Kg	
7440-09-7	Potassium	5.77	822	mg/Kg	
7782-49-2	Selenium	0.47	0.47	mg/Kg	U
7440-22-4	Silver	0.11	0.11	mg/Kg	U
7440-23-5	Sodium	2.39	53.8	mg/Kg	
7440-28-0	Thallium	0.22	0.22	mg/Kg	U
7440-62-2	Vanadium	0.055	15.5	mg/Kg	
7440-66-6	Zinc	0.49	64.1	mg/Kg	

* Results are reported on a dry weight basis



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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-3

Client Sample ID: GP-03 (4-8')

Matrix: Soil

Type: Grab

Collected: 01/23/2009 13:12

% Solid: 89%

Remarks:

Analyzed Date: 01/27/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration*	Units	Q
7429-90-5	Aluminum	1.37	5210	mg/Kg	
7440-36-0	Antimony	0.22	0.22	mg/Kg	U
7440-38-2	Arsenic	0.37	0.37	mg/Kg	U
7440-39-3	Barium	0.043	44.6	mg/Kg	
7440-41-7	Beryllium	0.022	0.022	mg/Kg	U
7440-43-9	Cadmium	0.033	0.033	mg/Kg	U
7440-70-2	Calcium	2.81	28100	mg/Kg	
7440-47-3	Chromium	0.17	11.8	mg/Kg	
7440-48-4	Cobalt	0.043	5.66	mg/Kg	
7440-50-8	Copper	0.32	26.1	mg/Kg	
7439-89-6	Iron	1.96	10500	mg/Kg	
7439-92-1	Lead	0.18	109	mg/Kg	
7439-95-4	Magnesium	2.89	5420	mg/Kg	
7439-96-5	Manganese	0.087	272	mg/Kg	
7440-02-0	Nickel	0.054	11.7	mg/Kg	
7440-09-7	Potassium	5.68	1280	mg/Kg	
7782-49-2	Selenium	0.47	0.47	mg/Kg	U
7440-22-4	Silver	0.11	0.11	mg/Kg	U
7440-23-5	Sodium	2.36	620	mg/Kg	
7440-28-0	Thallium	0.22	0.22	mg/Kg	U
7440-62-2	Vanadium	0.054	17.5	mg/Kg	
7440-66-6	Zinc	0.48	57.1	mg/Kg	

* Results are reported on a dry weight basis



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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	0.013	mg/L	U
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.15	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	2.59	442	mg/L	
7440-47-3	Chromium	0.0016	0.036	mg/L	
7440-48-4	Cobalt	0.00040	0.029	mg/L	
7440-50-8	Copper	0.0029	0.052	mg/L	
7439-89-6	Iron	1.80	1210	mg/L	
7439-92-1	Lead	0.0017	0.16	mg/L	
7439-95-4	Magnesium	0.027	221	mg/L	
7439-96-5	Manganese	0.00080	14.9	mg/L	
7440-02-0	Nickel	0.00050	0.030	mg/L	
7440-09-7	Potassium	5.23	107	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	2.17	2710	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.00050	mg/L	U
7440-66-6	Zinc	0.0044	1.03	mg/L	



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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	28.8	mg/L	
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.56	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	2.59	466	mg/L	
7440-47-3	Chromium	0.0016	0.062	mg/L	
7440-48-4	Cobalt	0.00040	0.034	mg/L	
7440-50-8	Copper	0.0029	0.19	mg/L	
7439-89-6	Iron	0.018	96.6	mg/L	
7439-92-1	Lead	0.0017	0.71	mg/L	
7439-95-4	Magnesium	0.027	44.1	mg/L	
7439-96-5	Manganese	0.00080	2.72	mg/L	
7440-02-0	Nickel	0.00050	0.20	mg/L	
7440-09-7	Potassium	0.052	25.2	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	0.022	69.2	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.057	mg/L	
7440-66-6	Zinc	0.44	29.4	mg/L	



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02/04/2009

TAL Metals by SW846 6010

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	11.7	mg/L	
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.18	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	2.59	240	mg/L	
7440-47-3	Chromium	0.0016	0.029	mg/L	
7440-48-4	Cobalt	0.00040	0.013	mg/L	
7440-50-8	Copper	0.0029	0.039	mg/L	
7439-89-6	Iron	0.018	18.2	mg/L	
7439-92-1	Lead	0.0017	0.064	mg/L	
7439-95-4	Magnesium	0.027	36.3	mg/L	
7439-96-5	Manganese	0.00080	1.65	mg/L	
7440-02-0	Nickel	0.00050	0.023	mg/L	
7440-09-7	Potassium	0.052	25.4	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	0.022	199	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.030	mg/L	
7440-66-6	Zinc	0.0044	0.068	mg/L	



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02/04/2009

TAL Metals, Dissolved by Method SW846 6010

Sample: 0901338-10

Client Sample ID: GP-01 (GW)

Collected: 01/23/2009 11:20

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	0.013	mg/L	U
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.094	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	2.59	439	mg/L	
7440-47-3	Chromium	0.0016	0.014	mg/L	
7440-48-4	Cobalt	0.00040	0.022	mg/L	
7440-50-8	Copper	0.0029	0.011	mg/L	
7439-89-6	Iron	1.80	1210	mg/L	
7439-92-1	Lead	0.0017	0.11	mg/L	
7439-95-4	Magnesium	0.027	209	mg/L	
7439-96-5	Manganese	0.00080	15.0	mg/L	
7440-02-0	Nickel	0.00050	0.00050	mg/L	U
7440-09-7	Potassium	5.23	108	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	2.17	2940	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.00050	mg/L	U
7440-66-6	Zinc	0.0044	0.96	mg/L	



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02/04/2009

TAL Metals, Dissolved by Method SW846 6010

Sample: 0901338-11

Client Sample ID: GP-02 (GW)

Collected: 01/23/2009 12:36

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	6.32	mg/L	
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.29	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	2.59	446	mg/L	
7440-47-3	Chromium	0.0016	0.020	mg/L	
7440-48-4	Cobalt	0.00040	0.011	mg/L	
7440-50-8	Copper	0.0029	0.0029	mg/L	U
7439-89-6	Iron	0.018	61.1	mg/L	
7439-92-1	Lead	0.0017	0.089	mg/L	
7439-95-4	Magnesium	0.027	37.6	mg/L	
7439-96-5	Manganese	0.00080	2.50	mg/L	
7440-02-0	Nickel	0.00050	0.025	mg/L	
7440-09-7	Potassium	0.052	22.8	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	0.022	67.9	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.025	mg/L	
7440-66-6	Zinc	0.0044	23.2	mg/L	E



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02/04/2009

TAL Metals, Dissolved by Method SW846 6010

Sample: 0901338-12

Client Sample ID: GP-03 (GW)

Collected: 01/23/2009 15:01

Matrix: Liquid

Type: Grab

Remarks:

Analyzed Date: 01/29/2009

Preparation Date(s) : 01/27/2009 01/26/2009

Analytical Results

Cas No	Analyte	MDL	Concentration	Units	Q
7429-90-5	Aluminum	0.013	2.12	mg/L	
7440-36-0	Antimony	0.0020	0.0020	mg/L	U
7440-38-2	Arsenic	0.0030	0.0030	mg/L	U
7440-39-3	Barium	0.00040	0.098	mg/L	
7440-41-7	Beryllium	0.00020	0.00020	mg/L	U
7440-43-9	Cadmium	0.00030	0.00030	mg/L	U
7440-70-2	Calcium	0.026	204	mg/L	
7440-47-3	Chromium	0.0016	0.0016	mg/L	U
7440-48-4	Cobalt	0.00040	0.0065	mg/L	
7440-50-8	Copper	0.0029	0.014	mg/L	
7439-89-6	Iron	0.018	2.68	mg/L	
7439-92-1	Lead	0.0017	0.029	mg/L	
7439-95-4	Magnesium	0.027	33.5	mg/L	
7439-96-5	Manganese	0.00080	1.45	mg/L	
7440-02-0	Nickel	0.00050	0.00050	mg/L	U
7440-09-7	Potassium	0.052	23.8	mg/L	
7782-49-2	Selenium	0.0043	0.0043	mg/L	U
7440-22-4	Silver	0.0010	0.0010	mg/L	U
7440-23-5	Sodium	2.17	157	mg/L	
7440-28-0	Thallium	0.0020	0.0020	mg/L	U
7440-62-2	Vanadium	0.00050	0.0083	mg/L	
7440-66-6	Zinc	0.0044	0.043	mg/L	



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02/04/2009

Case Narrative

EPA 8260 VOLATILE ANALYSIS:

The following compounds were calibrated at 25, 50, 100, 150 and 200 ppb levels in the initial calibration curve:

- Acetone
- 2-Butanone
- 4-Methyl-2-pentanone
- 2-Hexanone

M&P-Xylenes and 2-Chloroethylvinylether were calibrated at 10, 40, 100, 200 and 300 ppb levels.

Acrolein/Acrylonitrile were calibrated at 50,100,150,200 and 250 ppb levels.

Tert Butyl Alcohol (TBA) was calibrated at 50,200,500,1000 and 1500 ppb levels.

All other compounds were calibrated at 5, 20, 50, 100 and 150 ppb levels.



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02/04/2009

Case Narrative

EPA 8270 SEMI-VOLATILE ANALYSIS:

Samples 10-13:

Bis(2-ethylhexyl)phthalate, which was found in the blank associated with these samples at 1.5ppb, is a common laboratory contaminant.

200mls sample was extracted for analysis due to high concentration of sediments. The sample was diluted 1:5 with DI water in order to prevent emulsions/ extraction problems.



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02/04/2009

ORGANIC METHOD QUALIFIERS

Q - Qualifier - specified entries and their meanings are as follows:

- U - The analytical result is not detected above the Method Detection Limit (MDL).
All MDL's are lower than the lowest calibration standard concentration.
- J - Indicates an estimated value. The concentration reported was between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- B - The analyte was found in the associated method blank as well as the sample.
It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - The concentration of the analyte exceeded the calibration range of the instrument.
- D - This flag indicates a system monitoring compound diluted out.

INORGANIC METHOD QUALIFIERS

C - (Concentration) qualifiers are as follows:

- B - Entered if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).
- U - Entered when the analyte was analyzed for, but not detected above the Method Detection Limit (MDL) which is less than the lowest calibration standard concentration.

Q - Qualifier specific entries and their meanings are as follows:

- E - Reported value is estimated because of the presence of interferences.

M - (Method) qualifiers are as follows:

- A - Flame AA
- AS - Semi-automated Spectrophotometric
- AV - Automated Cold Vapor AA
- C - Manual Spectrophotometric
- F - Furnace AA
- P - ICP
- T - Titrimetric

OTHER QUALIFIERS

ND - Not Detected



Appendix 2

Sample ID Soils York ID Sampling Date Client Matrix		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Industrial
Compound	CAS Number			
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
1,2-Dichloroethane	107-06-2	3.1	30	60
1,4-Dioxane	123-91-1	13	130	250
2-Butanone	78-93-3	100	500	1000
Acetone	67-64-1	100	500	1000
Benzene	71-43-2	4.8	44	89
Methylene chloride	75-09-2	100	500	1000
trans-1,2-Dichloroethylene	156-60-5	100	500	1000
Vinyl Chloride	75-01-4	0.9	13	27
Xylenes, Total	1330-20-7	100	500	1000
Volatile Organics, Tentatively Identified Cmpds.				
Dilution Factor				
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Benzo(a)anthracene	56-55-3	1	5.6	11
Benzo(a)pyrene	50-32-8	1	1	1.1
Benzo(b)fluoranthene	205-99-2	1	5.6	11
Benzo(k)fluoranthene	207-08-9	3.9	56	110
Chrysene	218-01-9	3.9	56	110
Dibenzo(a,h)anthracene	53-70-3	0.33	0.56	1.1
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	5.6	11
Semi-Volatiles, Tentatively Identified Cmpds.				
Dilution Factor				
Tentatively Identified Compounds		~	~	~
Pesticides, 8081 target list		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
NJDEP EPH (Cat. 2 Non-Fractionated)				

Dilution Factor Total EPH		~	~	~
Lead TCLP by EPA 6010 Dilution Factor Lead	7439-92-1	mg/Kg 400	mg/Kg 1000	mg/Kg 3900
Metals, Target Analyte Dilution Factor Copper Lead Zinc	7440-50-8 7439-92-1 7440-66-6	mg/Kg 270 400 10000	mg/Kg 270 1000 10000	mg/Kg 10000 3900 10000
Mercury by 7473 Dilution Factor Mercury	7439-97-6	mg/Kg 0.81	mg/Kg 2.8	mg/Kg 5.7
Chromium, Hexavalent Dilution Factor Chromium, Hexavalent	18540-29-9	mg/Kg 110	mg/Kg 400	mg/Kg 800
Cyanide, Total Dilution Factor Cyanide, total	57-12-5	mg/Kg 27	mg/Kg 27	mg/Kg 10000
ORP (Oxidation-Reduction Potential)(Ag/AgCl) Dilution Factor ORP (Oxidation-Reduction Potential) (Ag/AgCl)		~	~	~
pH Dilution Factor pH		~	~	~
TCLP Extraction for METALS EPA 1311 Dilution Factor TCLP Extraction		~	~	~
Total Solids Dilution Factor % Solids	solids	~	~	~
Polychlorinated Biphenyls (PCB) Dilution Factor Total PCBs	1336-36-3	mg/Kg 1	mg/Kg 1	mg/Kg 25

Sample ID Soils York ID Sampling Date Client Matrix		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
Compound	CAS Number			
Volatile Organics, NJDEP/TCL/Part 375 List Dilution Factor		mg/Kg	mg/Kg	mg/Kg
1,2-Dichloroethane	107-06-2	0.02	2.3	0.02
1,4-Dioxane	123-91-1	0.1	9.8	0.1
2-Butanone	78-93-3	0.12	100	0.12
Acetone	67-64-1	0.05	100	0.05
Benzene	71-43-2	0.06	2.9	0.06
Methylene chloride	75-09-2	0.05	51	0.05
trans-1,2-Dichloroethylene	156-60-5	0.19	100	0.19
Vinyl Chloride	75-01-4	0.02	0.21	0.02
Xylenes, Total	1330-20-7	1.6	100	0.26
Volatile Organics, Tentatively Identified Cmpds. Dilution Factor				
Semi-Volatiles, NJDEP/TCL/Part 375 List Dilution Factor		mg/Kg	mg/Kg	mg/Kg
Benzo(a)anthracene	56-55-3	1	1	1
Benzo(a)pyrene	50-32-8	22	1	1
Benzo(b)fluoranthene	205-99-2	1.7	1	1
Benzo(k)fluoranthene	207-08-9	1.7	1	0.8
Chrysene	218-01-9	1	1	1
Dibenzo(a,h)anthracene	53-70-3	1000	0.33	0.33
Indeno(1,2,3-cd)pyrene	193-39-5	8.2	0.5	0.5
Semi-Volatiles, Tentatively Identified Cmpds. Dilution Factor				
Tentatively Identified Compounds		~	~	~
Pesticides, 8081 target list Dilution Factor		mg/Kg	mg/Kg	mg/Kg
NJDEP EPH (Cat. 2 Non-Fractionated) Dilution Factor				
Total EPH		~	~	~

Lead TCLP by EPA 6010		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Lead	7439-92-1	450	400	63
Metals, Target Analyte		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Copper	7440-50-8	1720	270	50
Lead	7439-92-1	450	400	63
Zinc	7440-66-6	2480	2200	109
Mercury by 7473		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Mercury	7439-97-6	0.73	0.81	0.18
Chromium, Hexavalent		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Chromium, Hexavalent	18540-29-9	19	22	1
Cyanide, Total		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Cyanide, total	57-12-5	40	27	27
ORP (Oxidation-Reduction Potential)(Ag/AgCl)				
Dilution Factor				
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		~	~	~
pH				
Dilution Factor				
pH		~	~	~
TCLP Extraction for METALS EPA 1311				
Dilution Factor				
TCLP Extraction		~	~	~
Total Solids				
Dilution Factor				
% Solids	solids	~	~	~
Polychlorinated Biphenyls (PCB)		mg/Kg	mg/Kg	mg/Kg
Dilution Factor				
Total PCBs	1336-36-3	3.2	1	0.1

Sample ID Soils York ID Sampling Date Client Matrix		TP-1 0-5 FT + VOC 20E0916-01 5/29/2020 12:00:00 AM Soil		TP-1 5-10 FT + VOC 20E0916-02 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		1	
1,2-Dichloroethane	107-06-2	0.00290	U	0.00260	U
1,4-Dioxane	123-91-1	0.0590	U	0.0530	U
2-Butanone	78-93-3	0.00290	U	0.00260	U
Acetone	67-64-1	0.00590	U	0.00530	U
Benzene	71-43-2	0.00290	U	0.00260	U
Methylene chloride	75-09-2	0.00590	U	0.00530	U
trans-1,2-Dichloroethylene	156-60-5	0.00290	U	0.00260	U
Vinyl Chloride	75-01-4	0.00290	U	0.00260	U
Xylenes, Total	1330-20-7	0.00880	U	0.00790	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		1	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		5	
Benzo(a)anthracene	56-55-3	0.771	D	1.980	D
Benzo(a)pyrene	50-32-8	0.790	D	2.030	D
Benzo(b)fluoranthene	205-99-2	0.537	D	1.370	D
Benzo(k)fluoranthene	207-08-9	0.584	D	1.510	D
Chrysene	218-01-9	0.737	D	1.690	D
Dibenzo(a,h)anthracene	53-70-3	0.0503	U	0.332	D
Indeno(1,2,3-cd)pyrene	193-39-5	0.453	D	1.200	D
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	

Total EPH		58.700	U	53.900	U
Lead TCLP by EPA 6010		mg/L		mg/L	
Dilution Factor		1		1	
Lead	7439-92-1	0.125	U	0.125	U
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	32.900		30.100	
Lead	7439-92-1	46.600		38	
Zinc	7440-66-6	67.200		47.200	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.238		0.0921	
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.610	U	0.550	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.610	U	0.550	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		380		360	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		8.040		8.050	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	82		90.900	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0201	U	0.0182	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-2 0-5 FT + VOC 20E0916-03 5/29/2020 12:00:00 AM Soil		TP-2 5-10 FT + VOC 20E0916-04 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		100	
1,2-Dichloroethane	107-06-2	0.00210	U	0.230	U
1,4-Dioxane	123-91-1	0.0420	U	4.500	U
2-Butanone	78-93-3	0.00210	U	0.260	JD
Acetone	67-64-1	0.00420	U	0.450	U
Benzene	71-43-2	0.00210	U	0.230	U
Methylene chloride	75-09-2	0.00420	U	0.450	U
trans-1,2-Dichloroethylene	156-60-5	0.00210	U	0.230	U
Vinyl Chloride	75-01-4	0.00210	U	0.230	U
Xylenes, Total	1330-20-7	0.00640	U	0.680	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		100	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		50	
Benzo(a)anthracene	56-55-3	0.0452	U	0.0471	U
Benzo(a)pyrene	50-32-8	0.0452	U	0.0471	U
Benzo(b)fluoranthene	205-99-2	0.0452	U	0.0471	U
Benzo(k)fluoranthene	207-08-9	0.0452	U	0.0471	U
Chrysene	218-01-9	0.0452	U	0.0488	JD
Dibenzo(a,h)anthracene	53-70-3	0.0452	U	0.0471	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.0452	U	0.0471	U
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		10	

Total EPH		53	U	1,790	D
Lead TCLP by EPA 6010		mg/L		mg/L	
Dilution Factor		1		1	
Lead	7439-92-1	0.125	U	0.125	U
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	34.200		21.300	
Lead	7439-92-1	14.900		9.760	
Zinc	7440-66-6	177		35.100	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.0327	U	0.0343	U
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.546	U	0.571	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.546	U	0.571	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		320		150	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		7.930		7.660	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	91.600		87.600	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0179	U	0.0188	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-3 0-5 FT + VOC 20E0916-05 5/29/2020 12:00:00 AM Soil		TP-3 5-10 FT + VOC 20E0916-06 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		1	
1,2-Dichloroethane	107-06-2	0.00250	U	0.00250	U
1,4-Dioxane	123-91-1	0.0500	U	0.0490	U
2-Butanone	78-93-3	0.00270	J	0.00250	U
Acetone	67-64-1	0.0310		0.00950	J
Benzene	71-43-2	0.00290	J	0.00250	U
Methylene chloride	75-09-2	0.00830	J	0.00490	U
trans-1,2-Dichloroethylene	156-60-5	0.00250	U	0.00250	U
Vinyl Chloride	75-01-4	0.00250	U	0.00250	U
Xylenes, Total	1330-20-7	0.00740	U	0.00740	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		1	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		2	
Benzo(a)anthracene	56-55-3	0.381	D	0.0460	U
Benzo(a)pyrene	50-32-8	0.425	D	0.0460	U
Benzo(b)fluoranthene	205-99-2	0.402	D	0.0460	U
Benzo(k)fluoranthene	207-08-9	0.327	D	0.0460	U
Chrysene	218-01-9	0.364	D	0.0460	U
Dibenzo(a,h)anthracene	53-70-3	0.0456	U	0.0460	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.331	D	0.0460	U
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	
Total EPH		54.400	U	53.200	U
Lead TCLP by EPA 6010		mg/L		mg/L	

Dilution Factor		1		1	
Lead	7439-92-1	0.125	U	0.125	U
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	28.400		26.400	
Lead	7439-92-1	52.800		129	
Zinc	7440-66-6	41.600		50.600	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.0889		0.122	
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.555	U	0.554	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.555	U	0.554	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		210		190	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		8.330		8.720	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	90.100		90.300	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0182	U	0.0181	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-4 0-5 FT + VOC 20E0916-07 5/29/2020 12:00:00 AM Soil		TP-4 5-10 FT + VOC 20E0916-08 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		1	
1,2-Dichloroethane	107-06-2	0.00300	U	0.00280	U
1,4-Dioxane	123-91-1	0.0590	U	0.0560	U
2-Butanone	78-93-3	0.00300	U	0.00280	U
Acetone	67-64-1	0.0300		0.0220	
Benzene	71-43-2	0.00300	U	0.00280	U
Methylene chloride	75-09-2	0.00590	U	0.00560	U
trans-1,2-Dichloroethylene	156-60-5	0.00300	U	0.00280	U
Vinyl Chloride	75-01-4	0.00300	U	0.00280	U
Xylenes, Total	1330-20-7	0.00890	U	0.00830	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		1	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		2	
Benzo(a)anthracene	56-55-3	1.320	D	0.0471	U
Benzo(a)pyrene	50-32-8	1.480	D	0.0471	U
Benzo(b)fluoranthene	205-99-2	1.340	D	0.0471	U
Benzo(k)fluoranthene	207-08-9	1.040	D	0.0471	U
Chrysene	218-01-9	1.240	D	0.0471	U
Dibenzo(a,h)anthracene	53-70-3	0.178	D	0.0471	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.963	D	0.0471	U
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	
Total EPH		54.100	U	54.600	U

Lead TCLP by EPA 6010		mg/L		mg/L	
Dilution Factor		1		1	
Lead	7439-92-1	0.125	U	0.125	U
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	33.600		4.210	
Lead	7439-92-1	104		50.700	
Zinc	7440-66-6	108		9.750	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.178		0.0340	U
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.557	U	0.567	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.557	U	0.567	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		220		190	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		8.180		8.660	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	89.800		88.100	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0183	U	0.0188	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-5 0-5 FT + VOC 20E0916-09 5/29/2020 12:00:00 AM Soil		TP-5 5-10 FT + VOC 20E0916-10 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		1	
1,2-Dichloroethane	107-06-2	0.00310	U	0.00260	U
1,4-Dioxane	123-91-1	0.0630	U	0.0510	U
2-Butanone	78-93-3	0.00310	U	0.00260	U
Acetone	67-64-1	0.00630	U	0.0140	
Benzene	71-43-2	0.00310	U	0.00260	U
Methylene chloride	75-09-2	0.00630	U	0.00510	U
trans-1,2-Dichloroethylene	156-60-5	0.00310	U	0.00260	U
Vinyl Chloride	75-01-4	0.00310	U	0.00260	U
Xylenes, Total	1330-20-7	0.00940	U	0.00770	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		1	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		2	
Benzo(a)anthracene	56-55-3	0.500	D	0.0461	U
Benzo(a)pyrene	50-32-8	0.518	D	0.0461	U
Benzo(b)fluoranthene	205-99-2	0.457	D	0.0461	U
Benzo(k)fluoranthene	207-08-9	0.405	D	0.0461	U
Chrysene	218-01-9	0.473	D	0.0461	U
Dibenzo(a,h)anthracene	53-70-3	0.0802	JD	0.0461	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.378	D	0.0461	U
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	
Total EPH		55.500	U	54.800	U
Lead TCLP by EPA 6010		mg/L		mg/L	

Dilution Factor Lead	7439-92-1	1 0.125	U	1 0.125	U
Metals, Target Analyte Dilution Factor Copper Lead Zinc	7440-50-8 7439-92-1 7440-66-6	mg/Kg 1 43.200 150 113		mg/Kg 1 17.300 7.280 31.200	
Mercury by 7473 Dilution Factor Mercury	7439-97-6	mg/Kg 1 0.258		mg/Kg 1 0.0335	U
Chromium, Hexavalent Dilution Factor Chromium, Hexavalent	18540-29-9	mg/Kg 1 0.571	U	mg/Kg 1 0.559	U
Cyanide, Total Dilution Factor Cyanide, total	57-12-5	mg/Kg 1 0.571	U	mg/Kg 1 0.559	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl) Dilution Factor ORP (Oxidation-Reduction Potential) (Ag/AgCl)		mV 1 180		mV 1 180	
pH Dilution Factor pH		pH units 1 8.720		pH units 1 8.750	
TCLP Extraction for METALS EPA 1311 Dilution Factor TCLP Extraction		N/A 1 Completed		N/A 1 Completed	
Total Solids Dilution Factor % Solids	solids	% 1 87.500		% 1 89.400	
Polychlorinated Biphenyls (PCB) Dilution Factor Total PCBs	1336-36-3	mg/Kg 1 0.0189	U	mg/Kg 1 0.0186	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-6 0-5 FT + VOC 20E0916-11 5/29/2020 12:00:00 AM Soil		TP-6 5-10 FT + VOC 20E0916-12 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		1	
1,2-Dichloroethane	107-06-2	0.00290	U	0.00270	U
1,4-Dioxane	123-91-1	0.0590	U	0.0550	U
2-Butanone	78-93-3	0.00570	J	0.00740	
Acetone	67-64-1	0.0390		0.0510	
Benzene	71-43-2	0.00290	U	0.00270	U
Methylene chloride	75-09-2	0.00590	U	0.00550	U
trans-1,2-Dichloroethylene	156-60-5	0.00290	U	0.00270	U
Vinyl Chloride	75-01-4	0.00290	U	0.00270	U
Xylenes, Total	1330-20-7	0.00880	U	0.00820	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		1	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		2	
Benzo(a)anthracene	56-55-3	0.193	D	0.121	D
Benzo(a)pyrene	50-32-8	0.211	D	0.0975	D
Benzo(b)fluoranthene	205-99-2	0.192	D	0.0997	D
Benzo(k)fluoranthene	207-08-9	0.180	D	0.0953	D
Chrysene	218-01-9	0.200	D	0.113	D
Dibenzo(a,h)anthracene	53-70-3	0.0483	U	0.0456	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.169	D	0.0800	JD
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	
Total EPH		58	U	52.600	U

Lead TCLP by EPA 6010		mg/L		mg/L	
Dilution Factor		1		1	
Lead	7439-92-1	1.380		0.523	
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	28.700		63.400	
Lead	7439-92-1	18		60.300	
Zinc	7440-66-6	36.900		52.500	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.150		0.270	
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.585	U	0.547	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.585	U	0.547	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		190		190	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		8.700		8.620	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	85.400		91.300	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0194	U	0.0177	U

Sample ID Soils York ID Sampling Date Client Matrix		TP-7 0-5 FT + VOC 20E0916-13 5/29/2020 12:00:00 AM Soil		TP-7 5-10 FT + VOC 20E0916-14 5/29/2020 12:00:00 AM Soil	
Compound	CAS Number	Result	Q	Result	Q
Volatile Organics, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		1		100	
1,2-Dichloroethane	107-06-2	0.00230	U	0.250	U
1,4-Dioxane	123-91-1	0.0460	U	5.100	U
2-Butanone	78-93-3	0.00230	U	0.320	JD
Acetone	67-64-1	0.00460	U	0.510	U
Benzene	71-43-2	0.00230	U	0.250	U
Methylene chloride	75-09-2	0.00460	U	0.510	U
trans-1,2-Dichloroethylene	156-60-5	0.00230	U	0.250	U
Vinyl Chloride	75-01-4	0.00230	U	0.250	U
Xylenes, Total	1330-20-7	0.00680	U	0.760	U
Volatile Organics, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		1		100	
Semi-Volatiles, NJDEP/TCL/Part 375 List		mg/Kg		mg/Kg	
Dilution Factor		2		5	
Benzo(a)anthracene	56-55-3	0.0477	U	0.201	D
Benzo(a)pyrene	50-32-8	0.0477	U	0.199	D
Benzo(b)fluoranthene	205-99-2	0.0477	U	0.178	D
Benzo(k)fluoranthene	207-08-9	0.0477	U	0.163	D
Chrysene	218-01-9	0.0477	U	0.202	D
Dibenzo(a,h)anthracene	53-70-3	0.0477	U	0.0462	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.0477	U	0.133	D
Semi-Volatiles, Tentatively Identified Cmpds.		mg/kg		mg/kg	
Dilution Factor		2		2	
Tentatively Identified Compounds		0	U	0	U
Pesticides, 8081 target list		mg/Kg		mg/Kg	
Dilution Factor		5		5	
NJDEP EPH (Cat. 2 Non-Fractionated)		mg/kg		mg/kg	
Dilution Factor		1		1	

Total EPH		55.600	U	164	
Lead TCLP by EPA 6010		mg/L		mg/L	
Dilution Factor		1		1	
Lead	7439-92-1	0.125	U	0.963	
Metals, Target Analyte		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Copper	7440-50-8	16.300		20	
Lead	7439-92-1	17.600		50.800	
Zinc	7440-66-6	49.300		160	
Mercury by 7473		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Mercury	7439-97-6	0.0657		0.0810	
Chromium, Hexavalent		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Chromium, Hexavalent	18540-29-9	0.572	U	0.558	U
Cyanide, Total		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Cyanide, total	57-12-5	0.572	U	0.558	U
ORP (Oxidation-Reduction Potential)(Ag/AgCl)		mV		mV	
Dilution Factor		1		1	
ORP (Oxidation-Reduction Potential) (Ag/AgCl)		200		210	
pH		pH units		pH units	
Dilution Factor		1		1	
pH		8.600		8.580	
TCLP Extraction for METALS EPA 1311		N/A		N/A	
Dilution Factor		1		1	
TCLP Extraction		Completed		Completed	
Total Solids		%		%	
Dilution Factor		1		1	
% Solids	solids	87.300		89.600	
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg	
Dilution Factor		1		1	
Total PCBs	1336-36-3	0.0188	U	0.0185	U

NOTES:

Any Regulatory Exceedances are color coded in yellow

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Appendix 3

Sample ID Water York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW 2 20E0924-01 5/29/2020 12:00:00 PM Water	
Compound	CAS Number		Result	Q
Volatile Organics, 8260 - Comprehensive Dilution Factor		ug/L	ug/L 1	
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	14	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U
p- & m- Xylenes	179601-23-1	5	6.400	
sec-Butylbenzene	135-98-8	5	5.200	
Xylenes, Total	1330-20-7	5	9	
Semi-Volatiles, 8270 - Comprehensive Dilution Factor		ug/L	ug/L 1	
2,4,5-Trichlorophenol	95-95-4	1	2.560	U
2,4,6-Trichlorophenol	88-06-2	1	2.560	U
2-Chlorophenol	95-57-8	1	2.560	U
2-Methylphenol	95-48-7	1	2.560	U
2-Nitrophenol	88-75-5	1	2.560	U
3- & 4-Methylphenols	65794-96-9	1	2.560	U
4-Chloro-3-methylphenol	59-50-7	1	2.560	U
4-Nitrophenol	100-02-7	1	2.560	U
Benzo(a)anthracene	56-55-3	0.002	0.123	
Benzo(a)pyrene	50-32-8	0.002	0.103	
Benzo(b)fluoranthene	205-99-2	0.002	0.0923	
Benzo(k)fluoranthene	207-08-9	0.002	0.0821	
Bis(2-chloroethyl)ether	111-44-4	1	2.560	U
Chrysene	218-01-9	0.002	0.144	

Hexachlorobutadiene	87-68-3	0.5	0.513	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0513	
Phenol	108-95-2	1	2.560	U
NJDEP EPH (Cat. 2 Non-Fractionated)			ug/L	
Dilution Factor			1	
Total EPH		~	3,580	
Metals, Target Analyte, ICP		ug/L	ug/L	
Dilution Factor			1	
Lead	7439-92-1	25	326	
Magnesium	7439-95-4	35000		
Manganese	7439-96-5	300	1,710	
Sodium	7440-23-5	20000	26,400	
Zinc	7440-66-6	2000	18,600	
Metals, Target Analyte, ICPMS		ug/L	ug/L	
Dilution Factor			1	
Mercury by 7473		ug/L	ug/L	
Dilution Factor			1	

Sample ID Water York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW-4 20E0924-02 5/29/2020 12:00:00 PM Water	
Compound	CAS Number		Result	Q
Volatile Organics, 8260 - Comprehensive Dilution Factor		ug/L	ug/L 1	
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	9.600	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U
p- & m- Xylenes	179601-23-1	5	6	
sec-Butylbenzene	135-98-8	5		U
Xylenes, Total	1330-20-7	5	7.700	
Semi-Volatiles, 8270 - Comprehensive Dilution Factor		ug/L	ug/L 1	
2,4,5-Trichlorophenol	95-95-4	1	2.560	U
2,4,6-Trichlorophenol	88-06-2	1	2.560	U
2-Chlorophenol	95-57-8	1	2.560	U
2-Methylphenol	95-48-7	1	2.560	U
2-Nitrophenol	88-75-5	1	2.560	U
3- & 4-Methylphenols	65794-96-9	1	2.560	U
4-Chloro-3-methylphenol	59-50-7	1	2.560	U
4-Nitrophenol	100-02-7	1	2.560	U
Benzo(a)anthracene	56-55-3	0.002	0.0513	U
Benzo(a)pyrene	50-32-8	0.002	0.0513	U
Benzo(b)fluoranthene	205-99-2	0.002	0.0513	U
Benzo(k)fluoranthene	207-08-9	0.002	0.0513	U
Bis(2-chloroethyl)ether	111-44-4	1	2.560	U
Chrysene	218-01-9	0.002	0.0513	U
Hexachlorobutadiene	87-68-3	0.5	0.513	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0513	U

Phenol	108-95-2	1	2.560	U
NJDEP EPH (Cat. 2 Non-Fractionated)			ug/L	
Dilution Factor			1	
Total EPH		~	517	
Metals, Target Analyte, ICP		ug/L	ug/L	
Dilution Factor			1	
Lead	7439-92-1	25		
Magnesium	7439-95-4	35000	57,800	
Manganese	7439-96-5	300	2,090	
Sodium	7440-23-5	20000	146,000	
Zinc	7440-66-6	2000		
Metals, Target Analyte, ICPMS		ug/L	ug/L	
Dilution Factor			1	
Mercury by 7473		ug/L	ug/L	
Dilution Factor			1	

Sample ID Water York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW-5 20E0924-03 5/29/2020 12:00:00 PM Water	
Compound	CAS Number		Result	Q
Volatile Organics, 8260 - Comprehensive Dilution Factor		ug/L	ug/L 1	
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	10	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U
p- & m- Xylenes	179601-23-1	5	5.900	
sec-Butylbenzene	135-98-8	5		J
Xylenes, Total	1330-20-7	5	7.600	
Semi-Volatiles, 8270 - Comprehensive Dilution Factor		ug/L	ug/L 1	
2,4,5-Trichlorophenol	95-95-4	1	2.560	U
2,4,6-Trichlorophenol	88-06-2	1	2.560	U
2-Chlorophenol	95-57-8	1	2.560	U
2-Methylphenol	95-48-7	1	2.560	U
2-Nitrophenol	88-75-5	1	2.560	U
3- & 4-Methylphenols	65794-96-9	1	2.560	U
4-Chloro-3-methylphenol	59-50-7	1	2.560	U
4-Nitrophenol	100-02-7	1	2.560	U
Benzo(a)anthracene	56-55-3	0.002	0.0513	U
Benzo(a)pyrene	50-32-8	0.002	0.0513	U
Benzo(b)fluoranthene	205-99-2	0.002	0.0513	U
Benzo(k)fluoranthene	207-08-9	0.002	0.0513	U
Bis(2-chloroethyl)ether	111-44-4	1	2.560	U
Chrysene	218-01-9	0.002	0.0513	U
Hexachlorobutadiene	87-68-3	0.5	0.513	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0513	U

Phenol	108-95-2	1	2.560	U
NJDEP EPH (Cat. 2 Non-Fractionated)			ug/L	
Dilution Factor			1	
Total EPH		~	750	
Metals, Target Analyte, ICP		ug/L	ug/L	
Dilution Factor			1	
Lead	7439-92-1	25		U
Magnesium	7439-95-4	35000	49,000	
Manganese	7439-96-5	300	2,110	
Sodium	7440-23-5	20000	128,000	
Zinc	7440-66-6	2000		U
Metals, Target Analyte, ICPMS		ug/L	ug/L	
Dilution Factor			1	
Mercury by 7473		ug/L	ug/L	
Dilution Factor			1	

Sample ID Water York ID Sampling Date Client Matrix		NYSDEC TOGS Standards and Guidance Values - GA	GW-6 20E0924-04 5/29/2020 12:00:00 PM Water	
Compound	CAS Number		Result	Q
Volatile Organics, 8260 - Comprehensive Dilution Factor		ug/L	ug/L 1	
1,2,3-Trichloropropane	96-18-4	0.04	0.200	U
1,2,4-Trimethylbenzene	95-63-6	5	8.800	
1,2-Dibromo-3-chloropropane	96-12-8	0.04	0.200	U
1,2-Dibromoethane	106-93-4	0.0006	0.200	U
p- & m- Xylenes	179601-23-1	5	5.600	
sec-Butylbenzene	135-98-8	5		U
Xylenes, Total	1330-20-7	5	6.900	
Semi-Volatiles, 8270 - Comprehensive Dilution Factor		ug/L	ug/L 1	
2,4,5-Trichlorophenol	95-95-4	1	2.560	U
2,4,6-Trichlorophenol	88-06-2	1	2.560	U
2-Chlorophenol	95-57-8	1	2.560	U
2-Methylphenol	95-48-7	1	2.560	U
2-Nitrophenol	88-75-5	1	2.560	U
3- & 4-Methylphenols	65794-96-9	1	2.560	U
4-Chloro-3-methylphenol	59-50-7	1	2.560	U
4-Nitrophenol	100-02-7	1	2.560	U
Benzo(a)anthracene	56-55-3	0.002	0.0513	U
Benzo(a)pyrene	50-32-8	0.002	0.0513	U
Benzo(b)fluoranthene	205-99-2	0.002	0.0513	U
Benzo(k)fluoranthene	207-08-9	0.002	0.0513	U
Bis(2-chloroethyl)ether	111-44-4	1	2.560	U
Chrysene	218-01-9	0.002	0.0615	
Hexachlorobutadiene	87-68-3	0.5	0.513	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.002	0.0513	U

Phenol	108-95-2	1	2.560	U
NJDEP EPH (Cat. 2 Non-Fractionated)			ug/L	
Dilution Factor			1	
Total EPH		~	1,100	
Metals, Target Analyte, ICP		ug/L	ug/L	
Dilution Factor			1	
Lead	7439-92-1	25		U
Magnesium	7439-95-4	35000		
Manganese	7439-96-5	300	700	
Sodium	7440-23-5	20000	75,900	
Zinc	7440-66-6	2000	2,180	
Metals, Target Analyte, ICPMS		ug/L	ug/L	
Dilution Factor			1	
Mercury by 7473		ug/L	ug/L	
Dilution Factor			1	

NOTES:

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Appendix 4

Sample ID Soil Vapor York ID Sampling Date Client Matrix		NYSDOH Background Standards - Indoor Air - 25th Pctl	NYSDOH Background Standards - Indoor Air - Upper Fence	NYSDOH Background Standards - Outdoor Air - 25th Pctl
Compound	CAS Number			
Volatile Organics, EPA TO15 Full List		ug/m3	ug/m3	ug/m3
Dilution Factor				
1,1,1-Trichloroethane	71-55-6	0.25	2.5	0.25
1,1,2,2-Tetrachloroethane	79-34-5	0.25	0.4	0.25
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	0.25	2.5	0.25
1,1,2-Trichloroethane	79-00-5	0.25	0.4	0.25
1,1-Dichloroethane	75-34-3	0.25	0.4	0.25
1,1-Dichloroethylene	75-35-4	0.25	0.4	0.25
1,2,4-Trichlorobenzene	120-82-1	0.25	0.5	0.25
1,2,4-Trimethylbenzene	95-63-6	0.7	9.8	0.25
1,2-Dibromoethane	106-93-4	0.25	0.4	0.25
1,2-Dichlorobenzene	95-50-1	0.25	0.5	0.25
1,2-Dichloroethane	107-06-2	0.25	0.4	0.25
1,2-Dichloropropane	78-87-5	0.25	0.4	0.25
1,2-Dichlorotetrafluoroethane	76-14-2	0.25	0.4	0.25
1,3,5-Trimethylbenzene	108-67-8	0.25	3.9	0.25
1,3-Dichlorobenzene	541-73-1	0.25	0.5	0.25
1,4-Dichlorobenzene	106-46-7	0.25	1.2	0.25
2-Butanone	78-93-3	0.25	16	0.25
4-Methyl-2-pentanone	108-10-1	0.25	1.9	0.25
Acetone	67-64-1	9.9	115	3.40
Benzene	71-43-2	1.1	13	0.6
Bromomethane	74-83-9	0.25	0.5	0.25
Carbon tetrachloride	56-23-5	0.25	1.3	0.25
Chlorobenzene	108-90-7	0.25	0.4	0.25
Chloroethane	75-00-3	0.25	0.4	0.25
Chloroform	67-66-3	0.25	1.2	0.25
Chloromethane	74-87-3	0.25	4.2	0.25

cis-1,2-Dichloroethylene	156-59-2	0.25	0.4	0.25
cis-1,3-Dichloropropylene	10061-01-5	0.25	0.4	0.25
Cyclohexane	110-82-7	0.25	6.3	0.25
Dichlorodifluoromethane	75-71-8	0.25	10	0.25
Ethyl Benzene	100-41-4	0.40	6.4	0.25
Hexachlorobutadiene	87-68-3	0.25	0.5	0.25
Methyl Methacrylate	80-62-6	0.25	0.4	0.25
Methyl tert-butyl ether (MTBE)	1634-04-4	0.25	14	0.25
Methylene chloride	75-09-2	0.30	16	0.25
n-Heptane	142-82-5	1	18	0.25
n-Hexane	110-54-3	0.60	14	0.25
o-Xylene	95-47-6	0.40	7.1	0.25
p- & m- Xylenes	179601-23-1	0.5	11	0.25
Styrene	100-42-5	0.25	1.4	0.25
Tetrachloroethylene	127-18-4	0.25	2.5	0.25
Tetrahydrofuran	109-99-9	0.25	0.8	0.25
Toluene	108-88-3	3.5	57	0.60
trans-1,3-Dichloropropylene	10061-02-6	0.25	~	0.25
Trichloroethylene	79-01-6	0.25	0.5	0.25
Trichlorofluoromethane (Freon 11)	75-69-4	1.1	12	0.25
Vinyl Chloride	75-01-4	0.25	0.4	0.25

Sample ID Soil Vapor York ID Sampling Date Client Matrix		Soil Vapor GRID #3 20E0922-01 5/29/2020 12:00:00 PM Soil Vapor	
Compound	CAS Number	Result	Q
Volatile Organics, EPA TO15 Full List		ug/m3	
Dilution Factor		66.05	
1,1,1-Trichloroethane	71-55-6	7.200	U
1,1,2,2-Tetrachloroethane	79-34-5	9.100	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	10	U
1,1,2-Trichloroethane	79-00-5	7.200	U
1,1-Dichloroethane	75-34-3	5.300	U
1,1-Dichloroethylene	75-35-4	1.300	U
1,2,4-Trichlorobenzene	120-82-1	9.800	U
1,2,4-Trimethylbenzene	95-63-6	3,400	D
1,2-Dibromoethane	106-93-4	10	U
1,2-Dichlorobenzene	95-50-1	7.900	U
1,2-Dichloroethane	107-06-2	5.300	U
1,2-Dichloropropane	78-87-5	6.100	U
1,2-Dichlorotetrafluoroethane	76-14-2	9.200	U
1,3,5-Trimethylbenzene	108-67-8	1,600	D
1,3-Dichlorobenzene	541-73-1	7.900	U
1,4-Dichlorobenzene	106-46-7	7.900	U
2-Butanone	78-93-3	21	D
4-Methyl-2-pentanone	108-10-1	5.400	U
Acetone	67-64-1	82	D
Benzene	71-43-2	7.200	D
Bromomethane	74-83-9	5.100	U
Carbon tetrachloride	56-23-5	2.100	U

Chlorobenzene	108-90-7	6.100	U
Chloroethane	75-00-3	3.500	U
Chloroform	67-66-3	6.400	U
Chloromethane	74-87-3	2.700	U
cis-1,2-Dichloroethylene	156-59-2	1.300	U
cis-1,3-Dichloropropylene	10061-01-5	6	U
Cyclohexane	110-82-7	14	D
Dichlorodifluoromethane	75-71-8	6.500	U
Ethyl Benzene	100-41-4	100	D
Hexachlorobutadiene	87-68-3	14	U
Methyl Methacrylate	80-62-6	5.400	U
Methyl tert-butyl ether (MTBE)	1634-04-4	4.800	U
Methylene chloride	75-09-2	9.200	U
n-Heptane	142-82-5	82	D
n-Hexane	110-54-3	200	D
o-Xylene	95-47-6	470	D
p- & m- Xylenes	179601-23-1	540	D
Styrene	100-42-5	5.600	U
Tetrachloroethylene	127-18-4	9	U
Tetrahydrofuran	109-99-9	7.800	U
Toluene	108-88-3	460	D
trans-1,3-Dichloropropylene	10061-02-6	6	U
Trichloroethylene	79-01-6	1.800	U
Trichlorofluoromethane (Freon 11)	75-69-4	7.400	U
Vinyl Chloride	75-01-4	1.700	U

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