87-67 171ST STREET

QUEENS, NEW YORK

Remedial Investigation Report

OER Project Number:

Prepared for:

Vikram Construction, Inc
8125 Little Neck Parkway
Queens, NY 11004

Prepared by:

EBC
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August 2014

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC BCP	New York City Brownfield Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Chawinie Miller, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 87-67 171st Street Queens, NY, (NYC VCP Site No. 14EH-N389Q). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 87-67 171st Street in the Jamaica Hills section of Queens, New York, and is identified as Block 9827 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,926-square feet and is bounded by block 9827 lot 29, residential buildings to the north, block 9827, lot 18, residential buildings to the south, 171st Street and block 9826 lots 64 and 65 to the west, residential buildings and block 9827 lots 31 and 37, a parking lot and commercial building to the east. A map of the site boundary is shown in Figure 2. Currently, the Site is currently vacant land.

Summary of Proposed Redevelopment Plan

The development project consists of redeveloping the entire Site with an 8-story residential buildings and a full cellar. The proposed building encomases 100 % of the site. The building includes a full cellar, spanning the entire foot print of the building, which will be utilized for parking, a compactor room, refuse rooms, stroage rooms, sprinkler and gas room, electrical meter room and a elevator. The upper floors will be equipped with residential units. The 8th floor will have a residentail unit, boiler room, laundry room and trash room. The Site will be equipped with a rear yard. The basement level and foundation will require excavation of the entire Site to a total depth of approximately 10 feet below grade. The water table is expected at approximately 60 feet below grade surface (bgs). The current zoning designation is residential; R7X and commercial C2-4. The proposed use is consistent with existing zoning for the property. Layout of the proposed site development is presented in Figure 3.

Summary of Past Uses of Site and Areas of Concern

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A Phase I was competed by Athenica Environmental Services, Inc in October 2013. A history dating back to 1900 was established. From approximately 1900 to 1981 the Site was developed with a residential building. From approximately 1981 to present, the site has been vacant land.

No environmental concerns were identfiied for the Site. A upgradient historical dry cleaner site was noted up gradient to the Site.

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 2 feet below grade.

Summary of the Work Performed under the Remedial Investigation

New York Developers performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed five soil borings across the entire project Site, and collected ten soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed two groundwater monitoring wells throughout the Site to establish groundwater flow and collected one groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 76 to 79 feet.
2. Depth to groundwater ranges from 51.55 to 52.85 feet at the Site.
3. Groundwater flow is generally to the southeast beneath the Site.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of 2 feet of historical fill underlain by medium brown sand and tan medium brown sand.

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6. Soil/fill samples results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives and Restricted Residential Soil Cleanup Objectives as presented in 6NYCRR Part 375-6.8 and CP51. Soil/fill samples showed no PCBs in any of the soil samples. Trace concentrations of one (1) VOCs, acetone was noted in all soil samples. Four SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs), including benz(a)anthracene (max. of 1,100 ug/Kg), benzo(a)pyrene (max. of 1,100 ug/Kg), benzo(b)fluoranthene (max. of 1,400 ug/Kg) and indeno(1,2,3-cd)pyrene (max. of 600 ug/Kg) exceeded Restricted Residential SCOs within one shallow soil sample. Chrysene (max. of 1,200 ug/Kg) was also detected in one shallow soil sample above Unrestricted Use SCOs. Four metals including chromium (max. of 30.5 mg/Kg), mercury (max. of 0.65 mg/Kg), lead (max. of 1,090 ug/Kg) and zinc (max. of 380 mg/Kg) exceeded Unrestricted Use SCOs in shallow soil samples. Of these metals, lead also exceeded Restricted Residential SCOs. One pesticide, 4,4-DDT (max. of 8.2 ug/Kg) exceeded Unrestricted Use SCOs in one shallow soil sample. Overall, all exceedances of SVOCs, metals and pesticides were limited to shallow soils. No compounds were detected exceeding Unrestricted Use SCOs in deeper soils. Findings of the RI are unremarkable and does not indicate any disposal.
7. Groundwater samples results were compared to New York State 6NYCRR Part 703.5 Class GA groundwater quality standards (GQS). Groundwater results showed no PCBs or pesticides in any sample. Seven VOCs, including 1,2,4-Trimethylbenzene (max. of 19.0 ug/L), 1,3,5-Trimethylbenzene (max. of 7.6 ug/L), m&p-Xylenes (max. of 16.0 ug/L), naphthalene (max. of 16.0 ug/L), o-Xylene (max. of 12.0 ug/L), tetrachloroethene (max. of 8.3 ug/L) toluene (max. of 9.5 ug/L) exceeded their GQS. Five PAH related SVOCs, benzo(a)anthracene (max. of 0.1 ug/L), benzo(b)fluoranthene (max. of 0.07 ug/L), benzo(k)fluoranthene (max. of 0.03 ug/L), chrysene (max. of 0.07 ug/L) and indeno(1,2,3-cd)pyrene (at 0.02 ug/L) exceeded their GQS. Several metals were identified, but only iron (max. of 1.49 mg/L), manganese (max. of 17.4 mg/L), nickel (max. of .401 mg/L) and sodium (max. of 43.3 mg/L) exceeded their respective GQS.
8. Soil vapor results collected during the RI were compared to the compounds listed in Vapor Intrusion Matrices in the New York State Department of Health (NYSDOH) Final

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Guidance for Evaluating Soil Vapor Intrusion, dated October 2006. Soil vapor samples collected during the RI showed low levels of petroleum related and low levels of chlorinated VOCs in all soil vapor samples. Total concentrations of petroleum-related VOCs (BTEX) ranged from 26.52 $\mu g/m^3$ to 33.34 $\mu g/m^3$. All compounds were detected at low levels except for acetone (maximum of 7,410 $\mu g/m^3$) and methyl ethyl ketone (maximum of 1040 $\mu g/m^3$). Trichloroethane (TCA) was detected in all three samples and ranged from 0.806 to 3.87 $\mu g/m^3$. Chlorinated VOCs including tetrachloroethene (PCE) was detected in all soil vapor samples and ranged from 7.39 to 22 $\mu g/m^3$, carbon tetrachloride was detected in all samples at a maximum concentration of 0.943 $\mu g/m^3$. 1,1,1- Trichloroethene (TCE) was not detected in any soil vapor samples. No chlorinated VOCs concentrations were above the monitoring level ranges established within the State DOH soil vapor guidance matrix.

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REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Vikram Construction Inc. has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 5,926 Site located at 87-67 171st Street in the Jamaica section of Queens, New York. Residential use is proposed for the property. The RI work was performed between May 5, 2014 and May 20 2014. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 87-67 171st Street in the Jamaica section of Queens, New York, and is identified as Block 9827 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 5,926-square feet and is bounded by block 9827 lot 29, a mixed use residential and commercial building to the north, block 9827, lot 18, a residential building to the south, block 9827 lot 31 and 37 to the east, a commercial building and parking lot and 171st Street and block 9826 lots 65, 64 and 63, a residential buildings and a vacant lot to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant land.

1.2 Proposed Redevelopment Plan

The development project consists of redeveloping the entire Site with an 8-story residential buildings and a full cellar. The proposed building encompasses 100 % of the site. The building includes a full cellar, spanning the entire foot print of the building, which will be utilized for parking, compactor room, refuse room, sprinkler, gas room, electrical meter room and a elevator. The first floor will be used for parking and the building lobby. The second floor through seventh floor will be developed with residential units. The eigth floor will be used for one residential unit, a recration room, laundry room, boiler room and refuse room. The basement level and foundation will require excavation of the entire Site to a total depth of approximately 10 feet below grade. The water table is expected at approximately 50 feet below grade surface (bgs).

The current zoning designation is residential; R7X and commercial C2-4. The proposed use is consistent with existing zoning for the property. Layout of the proposed site development is presented in Figure 3.

1.3 Description of Surrounding Property

The area surrounding the Site consists of a mix of residential and industrial properties. Figure 4 shows the surrounding land usage of the adjacent properties listed below as well as additional properties located up to 500 feet away from the Site. No hospitals, daycare facilities or schools are located within a 250 ft radius of the Site.

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	Block 9827 lot 29, a mixed use residential and commercial buildings.
South – Adjacent property	Block 9827, lot 18, a residential building
East –	Block 9827 lot 31 and 37; a commercial building and parking lot
West – Adjacent property	Block 9826 lots 65, 64 and 63, a residential buildings and a vacant lot

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2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I was competed by Athenica Environmental Services, Inc in October 2013. A history dating back to 1900 was established. From approximately 1900 to 1981 the Site was developed with a residential building. From approximately 1981 to present, the site has been vacant land.

No environmental concerns were identfiied for the Site. A historical dry cleaner site was noted up gradient to the Site.

The following environmental concerns:

- The NYC "E" Designation for Underground Storage Tanks Testing protocol.

2.2 Previous Investigations

EBC has not been made aware of any previous subsurface investigations conducted at the Site.

2.3 Site Inspection

Mr. Kevin Waters of EBC performed the site inspection on May 5, 2014, beginning at approximately 7:00 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. At the time of the inspection, the Site was vacant land.

2.4 Areas of Concern

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 2 feet below grade.

A copy of the Phase 1 Report is presented in Attachment A.

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3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Chawinie Miller.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

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4.0 REMEDIAL INVESTIGATION ACTIVITIES

Vikram Construction Inc performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed five soil borings across the entire project Site, and collected ten soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed two groundwater monitoring wells throughout the Site to establish groundwater flow and collected one groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes around Site perimeter and collected five samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment. 100% excavation is to 10 feet below grade is planned for the Site.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

The five soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. Soil samples were collected continuously from grade to a final depth of 12 feet below existing grade using a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings and no odors were noted.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval of 10 to 12 feet below grade.

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Boring logs were prepared by a Qualified Environmental Professional and are attached in Attachment B. A map showing the location of soil borings and monitor wells is shown in Figure 5.

Groundwater Monitoring Well Construction

A temporary 1-inch diameter PVC monitoring well with 10 feet of 0.010 slot screen was installed at boring locations MW1, MW2 and MW3 set to intersect the water table. Since groundwater was encountered at approximately 51.55 to 52.85 feet below grade, monitoring wells were installed to a depth of 60 feet. MW3 was not able to be installed, refusal was encountered several times. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

Survey

Soil borings and wells were located to the nearest 0.10 foot with respect to two or more permanent site features.

Water Level Measurement

Approximate groundwater level measurements were collected using a Solinst oil/water interface meter to ensure the surface of the water table was within the screened section of the monitoring well. No free product was observed within the two monitoring wells. Water level data is included in **Table 1**.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR, with the exception of deep samples for B-1 to B-3 for analysis of metals and samples B-1 to B-3 shallow and deep samples for pesticides and PCBs. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action

alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Ten soil samples with a duplicate were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Tables 2 through 5. Figure 5 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

The ten samples with a duplicate were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals.

Groundwater Sampling

One groundwater samples with a duplicate was collected for chemical analysis during this RI. EBC was not able to collect a water sample from MW1 and attempted to do so several times. Groundwater samples were collected by installing a one-inch diameter PVC well, 5-feet below the water table interface (set at approximately 50 feet below grade). A groundwater sample was then collected from the temporary well utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Sampling logs with information on purging and sampling of groundwater monitoring wells is included in Attachment C. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three soil vapor implants were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 10. Soil vapor sampling logs are included in Attachment D. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The one sub slab soil vapor implant and the four soil vapor implants were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor implants is shown on Figure 5. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The implants were installed to a depth ranging from 10 to 12 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling for the implants installed on May 17, 2014, was conducted on May 20, 2014. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all six soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the three vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

The soil gas Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (Attachment E). Samples were submitted to Phoenix for laboratory analysis of VOCs EPA Method TO-15.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods:

	• TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters..

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 11, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Attachment E.

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5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of stones, dark silty sand and top soil matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately 2 feet below grade. Native soil consisting of a medium brown and tan sand is present below the historic fill layer.

Hydrogeology

A table of water level data for all monitor wells is included in Table 1. The average depth to groundwater is 52.09 and the range in depth is 51.55 to 52.64. Groundwater flow is generally in a northeastern direction.

5.2 Soil Chemistry

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Tables 2 through 5. Results were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Soil Cleanup Objectives (RRSCOs) as presented in 6NYCRR Part 375-6.8 and CP51. A copy of the laboratory report is provided in Attachment E. Figure 6 shows the location and posts the values for soil/fill that exceeds UUSCOs and RRSCOs.

Soil/fill samples collected during the RI showed no PCBs in any of the soil samples. Trace concentrations of one (1) VOCs was noted in each of the soil samples, and did not exceed Unrestricted Use SCOs. Four SVOCs consisting of Polycyclic Aromatic Hydrocarbons (PAHs) were found within one shallow soil samples exceeding Unrestricted Use SCOs as well as Restricted Residential SCOs. These SVOCs included benz(a)anthracene (max. of 1,100 ug/Kg), benzo(a)pyrene (max. of 1,100 ug/Kg), benzo(b)fluoranthene (max. of 1,400 ug/Kg) and indeno(1,2,3-cd)pyrene (max. of 600 ug/Kg). One SVOC chrysene (max. of 1,200 ug/Kg) was detected in one shallow soil sample above Unrestricted Use SCOs. Three metals including chromium (max. of 30.5 mg/Kg), mercury (max. of 0.65 mg/Kg) and zinc (max. of 380 mg/Kg)

exceeded Unrestricted Use SCOs in four shallow soil samples. Lead (max. of 1,090 ug/Kg) also exceeded Restricted Residential SCOs in one shallow soil sample and exceeded Unrestricted Use SCOs in two shallow soil samples . One pesticide, 4,4-DDT (max. of 8.2 ug/Kg) exceeded Unrestricted Use SCOs in one shallow soil samples. Findings of the RI were consistent with observations for historical fill sites in areas throughout NYC.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 6 through 10. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater samples collected during the investigations showed no PCBs or pesticides in any sample. Seven VOCs, 1,2,4-Trimethylbenzene (max. of 19.0 ug/L), 1,3,5-Trimethylbenzene (max. of 7.6 ug/L), m&p-Xylenes (max. of 16.0 ug/L), naphthalene (max. of 16.0 ug/L), o-Xylene (max. of 12.0 ug/L), tetrachloroethene (max. of 8.3 ug/L) toluene (max. of 9.5 ug/L) exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS) within one sample and the duplicate sample. Trace concentrations of several VOCs were detected and none of these VOCs exceeded NYSDEC Part 703.5 Groundwater Quality Standards (GQS). Five PAH related SVOCs, benzo(a)anthracene (max. of 0.1 ug/L), benzo(b)fluoranthene (max. of 0.07 ug/L), benzo(k)fluoranthene (max. of 0.03 ug/L), chrysene (max. of 0.07 ug/L) and indeno(1,2,3-cd)pyrene (at 0.02 ug/L) exceeded the GQS. Four dissolved metals including iron (max. of 1.49 mg/L), manganese (max. of 17.4 mg/L), nickel (max. of .401 mg/L) and sodium (max. of 43.3 mg/L) were identified above their respective GQS.

5.4 Soil Vapor Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in Table 11.

Soil vapor samples collected during the RI showed low levels of petroleum related and low levels of chlorinated VOCs in all soil vapor samples. Total concentrations of petroleum-related VOCs (BTEX) ranged from 26.52 $\mu g/m^3$ to 33.34 $\mu g/m^3$. Overall the highest reported concentrations were for acetone (maximum of 7,410 $\mu g/m^3$). Trichloroethane (TCA) was detected in all three samples and ranged from 0.806 to 3.87 $\mu g/m^3$. Chlorinated VOCs including tetrachloroethene (PCE) was detected in all soil vapor samples and ranged from 7.39 to 22 $\mu g/m^3$, carbon tetrachloride was detected in all samples at a maximum concentration of 0.943 $\mu g/m^3$. 1,1,1- Trichloroethene (TCE) was not detected in any soil vapor samples. No chlorinated VOCs concentrations were above the monitoring level ranges established within the State DOH soil vapor guidance matrix.

Figure 8 shows the location and posts the values for soil vapor samples with detected concentrations.

5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

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TABLES

Table 1
87-67 171st Street,
Queens, NY
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
B1	5/5/2014	12	2	Geoprobe	-	-
B2	5/5/2014	12	2	Geoprobe	-	-
B3	5/5/2014	12	2	Geoprobe	-	-
B4	5/5/2014	16	2	Geoprobe	-	-
B5	5/5/2014	13	2	Geoprobe	-	-
MW1/GW1	5/20/2014	60	1	PVC	-	0.00
MW2/GW2	5/20/2014	60	1	PVC	10.00	56.45

TABLE 2
87-67 171st Street,
Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1				B2				B3				B4				B5				Duplicate	
			(0-2') 5/5/2014 µg/Kg		(10-12') 5/5/2014 µg/Kg		(0-2') 5/5/2014 µg/Kg		(10-12') 5/5/2014 µg/Kg		(0-2') 5/5/2014 µg/Kg		(10-12') 5/5/2014 µg/Kg		(0-2') 5/5/2014 µg/Kg		(10-12') 5/5/2014 µg/Kg		(0-2') 5/5/2014 µg/Kg		(10-12') 5/5/2014 µg/Kg		5/5/2014 µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1,1-Trichloroethane	680	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1,2,2-Tetrachloroethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1,2-Trichloroethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1-Dichloroethane	270	26,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1-Dichloroethene	330	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,1-Dichloropropene			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2,3-Trichlorobenzene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2,3-Trichloropropane			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2,4-Trichlorobenzene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2,4-Trimethylbenzene	3,600	52,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2-Dibromo-3-chloropropane			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2-Dibromoethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2-Dichlorobenzene	1,100	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2-Dichloroethane	20	3,100	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,2-Dichloropropane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,3,5-Trimethylbenzene	8,400	52,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,3-Dichlorobenzene	2,400	4,900	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,3-Dichloropropane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
1,4-Dichlorobenzene	1,800	13,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
2,2-Dichloropropane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
2-Chlorotoluene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
2-Hexanone (Methyl Butyl Ketone)			< 28	28	< 27	27	< 30	30	< 27	27	< 27	27	< 26	26	< 30	30	< 27	27	< 28	28	< 27	27	< 26	26
2-Isopropyltoluene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
4-Chlorotoluene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
4-Methyl-2-Pentanone			< 28	28	< 27	27	< 30	30	< 27	27	< 27	27	< 26	26	< 30	30	< 27	27	< 28	28	< 27	27	< 26	26
Acetone	50	100,000	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50	< 50	50
Acrylonitrile			< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 10	10
Benzene	60	4,800	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Bromobenzene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Bromochloromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Bromodichloromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Bromoform			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Bromomethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Carbon Disulfide			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Carbon tetrachloride	760	2,400	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Chlorobenzene	1,100	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Chloroethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Chloroform	370	49,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Chloromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
cis-1,2-Dichloroethene	250	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
cis-1,3-Dichloropropene			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Dibromochloromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Dibromomethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Dichlorodifluoromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Ethylbenzene	1,000	41,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Hexachlorobutadiene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Isopropylbenzene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
m&p-Xylenes	260	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Methyl Ethyl Ketone (2-Butanone)	120	100,000	< 33	33	< 32	32	< 36	36	< 33	33	< 32	32	< 32	32	< 37	37	< 32	32	< 34	34	< 32	32	< 31	31
Methyl t-butyl ether (MTBE)	930	100,000	< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 10	10
Methylene chloride	50	100,000	**1.9**	5.6	**2.4**	5.4	**2.2**	5.9	**1.9**	5.4	**2.1**	5.3	**2.3**	5.3	**2.1**	6.1	**1.7**	5.4	**1.9**	5.6	**2**	5.4	**1.9**	5.2
Naphthalene	12,000	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
n-Butylbenzene	12,000	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
n-Propylbenzene	3,900	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
o-Xylene	260	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
p-Isopropyltoluene			< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
sec-Butylbenzene	11,000	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Styrene			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
tert-Butylbenzene	5,900	100,000	< 280	280	< 5.4	5.4	< 290	290	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 300	300	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Tetrachloroethene	1,300	19,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Tetrahydrofuran (THF)			< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 12	12	< 11	11	< 11	11	< 11	11	< 10	10
Toluene	700	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
trans-1,2-Dichloroethene	190	100,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
trans-1,3-Dichloropropene			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
trabs-1,4-dichloro-2-butene			< 560	560	< 11	11	< 590	590	< 11	11	< 11	11	< 11	11	< 600	600	< 11	11	< 11	11	< 11	11	< 10	10
Trichloroethene	470	21,000	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Trichlorofluoromethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Trichlorotrifluoroethane			< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Vinyl Chloride	20	900	< 5.6	5.6	< 5.4	5.4	< 5.9	5.9	< 5.4	5.4	< 5.3	5.3	< 5.3	5.3	< 6.1	6.1	< 5.4	5.4	< 5.6	5.6	< 5.4	5.4	< 5.2	5.2
Total BTEX Concentration			**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**		**0.0**	
Total VOCs Concentration			**2**		**2.4**		**2**		**1.9**		**2**		**2.3**		**2**		**1.7**		**2**		**2.0**		**1.9**	

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
ND - Not-detected
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 3
87-67 171st Street,
Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1				B2				B3				B4				B5				Duplicate	
			(0-2') 5/24/2014		(10-12') 5/24/2014		(0-2') 5/24/2014		(10-12') 5/24/2014		(0-2') 5/24/2014		(10-12') 5/24/2014		(0-2') 5/24/2014		(10-12') 5/24/2014		(0-2') 5/24/2014		(10-12') 5/24/2014		5/24/2014	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
1,2,4-Trichlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
1,2-Dichlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
1,2-Diphenylhydrazine			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
1,3-Dichlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
1,4-Dichlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,4,5-Trichlorophenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,4,6-Trichlorophenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,4-Dichlorophenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,4-Dimethylphenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,4-Dinitrophenol			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
2,4-Dinitrotoluene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2,6-Dinitrotoluene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2-Chloronaphthalene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2-Chlorophenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2-Methylnaphthalene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2-Methylphenol (o-cresol)	330	100,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
2-Nitroaniline			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
2-Nitrophenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
3&4-Methylphenol (m&p-cresol)			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
3,3'-Dichlorobenzidine			< 730	730	< 710	710	< 760	760	< 700	700	< 700	700	< 690	690	< 780	780	< 700	700	< 740	740	< 690	690	< 700	700
3-Nitroaniline			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
4,6-Dinitro-2-methylphenol			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
4-Bromophenyl phenyl ether			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
4-Chloro-3-methylphenol			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
4-Chloroaniline			< 730	730	< 710	710	< 760	760	< 700	700	< 700	700	< 690	690	< 780	780	< 700	700	< 740	740	< 690	690	< 700	700
4-Chlorophenyl phenyl ether			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
4-Nitroaniline			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
4-Nitrophenol			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
Acenaphthene	20,000	100,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Acenaphthylene	100,000	100,000	< 260	260	< 250	250	**130**	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Acetophenone			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Aniline			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
Anthracene	100,000	100,000	< 260	260	< 250	250	**180**	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benz(a)anthracene	1,000	1,000	< 260	260	< 250	250	**1,100**	270	< 250	250	**170**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benzidine			< 730	730	< 710	710	< 760	760	< 700	700	< 700	700	< 690	690	< 780	780	< 700	700	< 740	740	< 690	690	< 700	700
Benzo(a)pyrene	1,000	1,000	< 260	260	< 250	250	**1,100**	270	< 250	250	**170**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benzo(b)fluoranthene	1,000	1,000	**140**	260	< 250	250	**1,400**	270	< 250	250	**230**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benzo(ghi)perylene	100,000	100,000	< 260	260	< 250	250	**730**	270	< 250	250	**130**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benzo(k)fluoranthene	800	3,900	< 260	260	< 250	250	**580**	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Benzoic acid			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
Benzyl butyl phthalate			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Bis(2-chloroethoxy)methane			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Bis(2-chloroethyl)ether			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Bis(2-chloroisopropyl)ether			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Bis(2-ethylhexyl)phthalate			**2,900**	260	< 250	250	< 270	270	< 250	250	**310**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Carbazole			< 1800	1,800	< 1800	1,800	< 1900	1,900	< 1800	1,800	< 1800	1,800	< 1700	1,700	< 2000	2,000	< 1800	1,800	< 1900	1,900	< 1700	1,700	< 1700	1,700
Chrysene	1,000	3,900	**130**	260	< 250	250	**1,200**	270	< 250	250	**190**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Dibenz(a,h)anthracene	330	330	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Dibenzofuran	7,000	59,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Diethyl phthalate			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Dimethylphthalate			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Di-n-butylphthalate			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Di-n-octylphthalate			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Fluoranthene	100,000	100,000	**220**	260	< 250	250	**2,100**	270	< 250	250	**370**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Fluorene	30,000	100,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Hexachlorobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Hexachlorobutadiene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Hexachlorocyclopentadiene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Hexachloroethane			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Indeno(1,2,3-cd)pyrene	500	500	< 260	260	< 250	250	**660**	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Isophorone			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Naphthalene	12,000	100,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Nitrobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
N-Nitrosodimethylamine			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
N-Nitrosodi-n-propylamine			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
N-Nitrosodiphenylamine			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Pentachloronitrobenzene			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Pentachlorophenol	800	6,700	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Phenanthrene	100,000	100,000	**110**	260	< 250	250	**630**	270	< 250	250	**180**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Phenol	330	100,000	< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Pyrene	100,000	100,000	**260**	260	< 250	250	**2,100**	270	< 250	250	**320**	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240
Pyridine			< 260	260	< 250	250	< 270	270	< 250	250	< 250	250	< 240	240	< 270	270	< 250	250	< 260	260	< 240	240	< 240	240

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

ND - Not-detected

RL - Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 4
87-67 171st Street,
Brooklyn, New York
Pesticide and PCB Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1				B2				B3				B4				B5				Soil Duplicate 1	
			(0-2') 5/25/2014		(10-12') 5/25/2014		(0-2') 5/25/2014		(10-12') 5/25/2014		(0-2') 5/25/2014		(10-12') 5/25/2014		(0-2') 5/25/2014		(10-12') 5/25/2014		(0-2') 5/25/2014		(10-12') 5/25/2014		(0-2') 5/25/2014	
			µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg		µg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
4,4' -DDD	3.3	2,600	< 2.6	2.6	< 2.6	2.6	< 2.7	2.7	< 2.6	2.6	< 2.6	2.6	< 2.5	2.5	< 2.8	2.8	< 2.5	2.5	< 2.6	2.6	< 2.5	2.5	< 2.5	2.5
4,4' -DDE	3.3	1,800	< 2.6	2.6	< 2.6	2.6	< 2.7	2.7	< 2.6	2.6	< 2.6	2.6	< 2.5	2.5	< 2.8	2.8	< 2.5	2.5	< 2.6	2.6	< 2.5	2.5	< 2.5	2.5
4,4' -DDT	3.3	1,700	< 2.6	2.6	< 2.6	2.6	**8.2**	2.7	< 2.6	2.6	< 2.6	2.6	< 2.5	2.5	< 2.8	2.8	< 2.5	2.5	< 2.6	2.6	< 2.5	2.5	< 2.5	2.5
a-BHC	20	97	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
a-Chlordane	910	94	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Aldrin	5	19	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
b-BHC	36	72	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Chlordane			< 22	22	< 21	21	**44**	23	< 21	21	< 21	21	< 21	21	< 24	24	< 21	21	< 22	22	< 21	21	< 21	21
d-BHC	40	100,000	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Dieldrin	5	39	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Endosulfan I	2,400	4,800	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Endosulfan II	2,400	4,800	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Endosulfan sulfate	2,400	4,800	< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Endrin	14	2,200	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Endrin aldehyde			< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Endrin ketone			< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
g-BHC	100	280	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
g-Chlordane			< 3.6	3.6	< 3.6	3.6	< 3.8	3.8	< 3.6	3.6	< 3.6	3.6	< 3.5	3.5	< 3.9	3.9	< 3.5	3.5	< 3.6	3.6	< 3.5	3.5	< 3.4	3.4
Heptachlor	42	420	< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Heptachlor epoxide			< 1.8	1.8	< 1.8	1.8	< 1.9	1.9	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7	< 2.0	2	< 1.8	1.8	< 1.8	1.8	< 1.8	1.8	< 1.7	1.7
Methoxychlor			< 7.2	7.2	< 7.1	7.1	< 15	15	< 7.1	7.1	< 7.1	7.1	< 6.9	6.9	< 7.8	7.8	< 7.0	7	< 7.3	7.3	< 7.0	7	< 6.9	6.9
Toxaphene			< 180	180	< 180	180	< 190	190	< 180	180	< 180	180	< 170	170	< 200	200	< 180	180	< 180	180	< 180	180	< 170	170
PCB-1016	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1221	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1232	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1242	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1248	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1254	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1260	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1262	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34
PCB-1268	100	1,000	< 36	36	< 36	36	< 38	38	< 36	36	< 36	36	< 35	35	< 39	39	< 35	35	< 36	36	< 35	35	< 34	34

Notes:
** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives
ND - Not-detected
RL - Reporting Limit
Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value
Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 5
87-67 171st Street,
Brooklyn, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1				B2				B3				B4				B5				Soil Duplicate	
			(0-2')		(10-12')		(0-2')		(10-12')		(0-2')		(10-12')		(0-2')		(10-12')		(0-2')		(10-12')		(0-2')	
			5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014		5/5/2014	
			mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Aluminum			**10,900**	38	**6,060**	33	**13,100**	35	**6,350**	34	**6,900**	32	**6,110**	34	**21,000**	43	**4,190**	35	**9,920**	35	**3,570**	38	**6,760**	33
Antimony			< 1.9	1.9	< 1.6	1.6	< 1.8	1.8	< 1.7	1.7	< 1.6	1.6	< 1.7	1.7	< 2.2	2.2	< 1.7	1.7	< 1.8	1.8	< 1.9	1.9	< 1.6	1.6
Arsenic	13	16	**2.6**	0.8	**1.2**	0.7	**7.9**	0.7	**1.3**	0.7	**1.9**	0.6	**2.4**	0.7	**3.6**	0.9	**1**	0.7	**2**	0.7	**0.8**	0.8	**1.6**	0.7
Barium	350	400	**61.8**	0.8	**26.7**	0.7	**324**	0.7	**34.3**	0.7	**47.7**	0.6	**36.8**	0.7	**77.4**	0.9	**22.4**	0.7	**38.6**	0.7	**24.8**	0.8	**36.5**	0.7
Beryllium	7.2	72	**0.41**	0.3	**0.22**	0.26	**0.54**	0.28	**0.24**	0.27	**0.23**	0.26	**0.27**	0.27	**0.6**	0.34	**0.17**	0.28	**0.32**	0.28	< 0.30	0.3	**0.23**	0.26
Cadmium	2.5	4.3	**0.24**	0.38	**0.17**	0.33	**1.01**	0.35	**0.19**	0.34	**0.31**	0.32	**0.31**	0.34	< 0.43	0.43	< 0.35	0.35	< 0.35	0.35	< 0.38	0.38	**0.23**	0.33
Calcium			**2,890**	3.8	**746**	3.3	**4,110**	3.5	**1,380**	3.4	**1,540**	3.2	**1,340**	3.4	**967**	4.3	**867**	3.5	**823**	3.5	**848**	3.8	**1,800**	3.3
Chromium	30	180	**19.3**	0.38	**15.1**	0.33	**23.6**	0.35	**22.7**	0.34	**22.8**	0.32	**18.1**	0.34	**30.5**	0.43	**12**	0.35	**18.1**	0.35	**8.81**	0.38	**22.6**	0.33
Cobalt			**8.96**	0.38	**6.02**	0.33	**7.38**	0.35	**6.91**	0.34	**4.66**	0.32	**6.71**	0.34	**10.5**	0.43	**4.41**	0.35	**5.74**	0.35	**3.98**	0.38	**6.03**	0.33
Copper	50	270	**33.4**	0.38	**14.7**	0.33	**44.1**	0.35	**18.5**	0.34	**26.2**	0.32	**25**	0.34	**24.1**	0.43	**11.8**	0.35	**23.5**	0.35	**11.1**	0.38	**24.3**	0.33
Iron			**19,000**	38	**15,800**	33	**18,200**	35	**16,700**	34	**19,300**	32	**19,300**	34	**24,600**	43	**9,770**	35	**16,100**	35	**9,470**	38	**16,200**	33
Lead	63	400	**84.3**	0.8	**3.4**	0.7	**1,090**	7.1	**6.3**	0.7	**111**	0.6	**22.4**	0.7	**15.3**	0.9	**2.2**	0.7	**17**	0.7	**1.8**	0.8	**27.8**	0.7
Magnesium			**2,620**	3.8	**1,540**	3.3	**1,840**	3.5	**1,950**	3.4	**1,730**	3.2	**1,710**	3.4	**3,120**	4.3	**1,080**	3.5	**1,720**	3.5	**1,030**	3.8	**1,680**	3.3
Manganese	1,600	2,000	**476**	3.8	**320**	3.3	**351**	3.5	**281**	3.4	**106**	0.32	**230**	3.4	**344**	4.3	**242**	3.5	**176**	3.5	**214**	3.8	**213**	3.3
Mercury	0.18	0.81	**0.07**	0.09	< 0.06	0.06	**0.28**	0.08	< 0.08	0.08	**0.65**	0.08	< 0.06	0.06	< 0.07	0.07	< 0.06	0.06	< 0.08	0.08	< 0.07	0.07	**0.14**	0.07
Nickel	30	310	**18**	0.38	**11.3**	0.33	**15.5**	0.35	**15.2**	0.34	**12.2**	0.32	**22.7**	0.34	**18**	0.43	**9.96**	0.35	**12.5**	0.35	**8.39**	0.38	**20**	0.33
Potassium			**945**	8	**638**	7	**946**	7	**728**	7	**1,000**	6	**927**	7	**1,030**	9	**633**	7	**966**	7	**561**	8	**785**	7
Selenium	3.9	180	< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.7	1.7	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.3	1.3
Silver	2	180	< 0.38	0.38	< 0.33	0.33	< 0.35	0.35	< 0.34	0.34	**0.36**	0.32	< 0.34	0.34	< 0.43	0.43	< 0.35	0.35	< 0.35	0.35	< 0.38	0.38	< 0.33	0.33
Sodium			**158**	8	**76**	7	**111**	7	**137**	7	**120**	6	**86**	7	**76**	9	**109**	7	**64**	7	**84**	8	**231**	7
Thallium			< 1.5	1.5	< 1.3	1.3	< 1.4	1.4	< 1.3	1.3	< 1.3	1.3	< 1.4	1.4	< 1.7	1.7	< 1.4	1.4	< 1.4	1.4	< 1.5	1.5	< 1.3	1.3
Vanadium			**32.4**	0.4	**22**	0.3	**43.1**	0.4	**29.9**	0.3	**33.3**	0.3	**34.4**	0.3	**44.5**	0.4	**15.6**	0.3	**27.3**	0.4	**14.1**	0.4	**30.9**	0.3
Zinc	109	10,000	**128**	0.8	**16.9**	0.7	**380**	7.1	**17.2**	0.7	**35.2**	0.6	**33.8**	0.7	**36.1**	0.9	**11.9**	0.7	**27.5**	0.7	**10.8**	0.8	**29.6**	0.7

Notes:

** - 6 NYCRR Part 375-6 Remedial Program Soil Cleanup Objectives

BRL - Below Reporting Limit

Bold/highlighted- Indicated exceedance of the NYSDEC UUSCO Guidance Value

Bold/highlighted- Indicated exceedance of the NYSDEC RRSCO Guidance Value

TABLE 6
87-67 171st Street,
Brooklyn, New York
Groundwater Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	MW2		DUPLICATE	
		5/20/2014		5/20/2014	
		µg/L		µg/L	
	µg/L	Result	RL	Result	RL
1,1,1,2-Tetrachlorothane	5	< 2.0	2	< 2.0	2
1,1,1-Trichloroethane	5	< 10	10	< 10	10
1,1,2,2-Tetrachloroethane	5	< 2.0	2	< 2.0	2
1,1,2-Trichloroethane	1	< 2.0	2	< 2.0	2
1,1-Dichloroethane	5	< 10	10	< 10	10
1,1-Dichloroethene	5	< 2.0	2	< 2.0	2
1,1-Dichloropropene		< 2.0	2	< 2.0	2
1,2,3-Trichlorobenzene		< 2.0	2	< 2.0	2
1,2,3-Trichloropropane	0.04	< 2.0	2	< 2.0	2
1,2,4-Trichlorobenzene		< 2.0	2	< 2.0	2
1,2,4-Trimethylbenzene	5	**18**	2	**19**	2
1,2-Dibromo-3-chloropropane	0.04	< 2.0	2	< 2.0	2
1,2-Dibromoethane		< 2.0	2	< 2.0	2
1,2-Dichlorobenzene	5	< 2.0	2	< 2.0	2
1,2-Dichloroethane	0.6	< 4.0	4	< 4.0	4
1,2-Dichloropropane	0.94	< 2.0	2	< 2.0	2
1,3,5-Trimethylbenzene	5	**7.3**	2	**7.6**	2
1,3-Dichlorobenzene	5	< 10	10	< 10	10
1,3-Dichloropropane	5	< 2.0	2	< 2.0	2
1,4-Dichlorobenzene	5	< 10	10	< 10	10
2,2-Dichloropropane	5	< 2.0	2	< 2.0	2
2-Chlorotoluene	5	< 2.0	2	< 2.0	2
2-Hexanone (Methyl Butyl Ketone)		< 2.0	2	< 2.0	2
2-Isopropyltoluene	5	< 2.0	2	< 2.0	2
4-Chlorotoluene	5	< 2.0	2	< 2.0	2
4-Methyl-2-Pentanone		< 2.0	2	< 2.0	2
Acetone		**19**	10	**16**	10
Acrolein		< 10	10	< 10	10
Acrylonitrile	5	< 10	10	< 10	10
Benzene	1	**0.5**	1.4	**0.54**	1.4
Bromobenzene	5	< 2.0	2	< 2.0	2
Bromochloromethane	5	< 2.0	2	< 2.0	2
Bromodichloromethane		< 2.0	2	< 2.0	2
Bromoform		< 10	10	< 10	10
Bromomethane	5	< 10	10	< 10	10
Carbon Disulfide	60	< 2.0	2	< 2.0	2
Carbon tetrachloride	5	< 2.0	2	< 2.0	2
Chlorobenzene	5	< 10	10	< 10	10
Chloroethane	5	< 10	10	< 10	10
Chloroform	7	**3.7**	10	**3.9**	10
Chloromethane	60	< 10	10	< 10	10
cis-1,2-Dichloroethene	5	< 2.0	2	< 2.0	2
cis-1,3-Dichloropropene		< 0.80	0.8	< 0.80	0.8
Dibromochloromethane		< 2.0	2	< 2.0	2
Dibromomethane	5	< 2.0	2	< 2.0	2
Dichlorodifluoromethane	5	< 2.0	2	< 2.0	2
Ethylbenzene	5	**3**	2	**3.2**	2
Hexachlorobutadiene	0.5	< 2.0	2	< 2.0	2
Isopropylbenzene	5	**0.64**	2	**0.74**	2
m&p-Xylenes	5	**16**	2	**15**	2
Methyl Ethyl Ketone (2-Butanone)		**4.5**	2	**3.4**	2
Methyl t-butyl ether (MTBE)	10	< 2.0	2	< 2.0	2
Methylene chloride	5	**0.72**	6	**0.78**	6
Naphthalene	10	**16**	2	**16**	2
n-Butylbenzene	5	**0.44**	2	**0.46**	2
n-Propylbenzene	5	**1.2**	2	**1.1**	2
o-Xylene	5	**12**	2	**12**	2
p-Isopropyltoluene		**0.6**	2	**0.58**	2
sec-Butylbenzene	5	< 2.0	2	**0.44**	2
Styrene	5	< 2.0	2	**0.84**	2
tert-Butylbenzene	5	< 2.0	2	< 2.0	2
Tetrachloroethene	5	**7.9**	2	**8.3**	2
Tetrahydrofuran (THF)		< 10	10	< 10	10
Toluene	5	**9.5**	2	**9.5**	2
trans-1,2-Dichloroethene	5	< 10	10	< 10	10
trans-1,3-Dichloropropene	0.4	< 0.80	0.8	< 0.80	0.8
trans-1,4-dichloro-2-butene	5	< 2.0	2	< 2.0	2
Trichloroethene	5	< 2.0	2	< 2.0	2
Trichlorofluoromethane	5	< 2.0	2	< 2.0	2
Trichlorotrifluoroethane		< 2.0	2	< 2.0	2
Vinyl Chloride	2	< 2.0	2	< 2.0	2

Notes:
- Not analyzed
ND - Not detected
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7
87-67 171st Street,
Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards	MW2		DUPLICATE	
		5/20/2014		5/20/2014	
		µg/L		µg/L	
	µg/L	Result	RL	Result	RL
1,2,4,5-Tetrachlorobenzene		< 0.54	0.54	< 0.50	0.5
1,2,4-Trichlorobenzene		< 5.4	5.4	< 5.0	5
1,2-Dichlorobenzene		< 1.1	1.1	< 1.0	1
1,2-Diphenylhdrazine		< 5.4	5.4	< 5.0	5
1,3-Dichlorobenzene		< 1.1	1.1	< 1.0	1
1,4-Dichlorobenzene		< 1.1	1.1	< 1.0	1
2,4,5-Trichlorophenol	3	< 1.1	1.1	< 1.0	1
2,4,6-Trichlorophenol	3	< 1.1	1.1	< 1.0	1
2,4-Dichlorophenol		< 1.1	1.1	< 1.0	1
2,4-Dimethylphenol		< 1.1	1.1	< 1.0	1
2,4-Dinitrophenol		< 1.1	1.1	< 1.0	1
2,4-Dinitrotoluene	5	< 5.4	5.4	< 5.0	5
2,6-Dinitrotoluene	5	< 5.4	5.4	< 5.0	5
2-Chloronaphthalene	10	< 5.4	5.4	< 5.0	5
2-Chlorophenol		< 1.1	1.1	< 1.0	1
2-Methylnaphthalene		**3.1**	5.4	**4.4**	5
2-Methylphenol (o-cresol)		< 1.1	1.1	< 1.0	1
2-Nitroaniline	5	< 5.4	5.4	< 5.0	5
2-Nitrophenol		< 1.1	1.1	< 1.0	1
3&4-Methylphenol (m&p-cresol)		< 1.1	1.1	**1.5**	1
3,3'-Dichlorobenzidine	5	< 5.4	5.4	< 5.0	5
3-Nitroaniline	5	< 5.4	5.4	< 5.0	5
4,6-Dinitro-2-methylphenol		< 1.1	1.1	< 1.0	1
4-Bromophenyl phenyl ether		< 5.4	5.4	< 5.0	5
4-Chloro-3-methylphenol		< 1.1	1.1	< 1.0	1
4-Chloroaniline	5	< 3.8	3.8	< 3.5	3.5
4-Chlorophenyl phenyl ether		< 5.4	5.4	< 5.0	5
4-Nitroaniline	5	< 5.4	5.4	< 5.0	5
4-Nitrophenol		< 1.1	1.1	< 1.0	1
Acenaphthene	20	< 5.4	5.4	< 5.0	5
Acenaphthylene		< 0.11	0.11	< 0.10	0.1
Acetophenone		< 5.4	5.4	< 5.0	5
Aniline		< 3.8	3.8	< 3.5	3.5
Anthracene	50	< 5.4	5.4	< 5.0	5
Benzo(a)anthracene	0.002	**0.1**	0.02	**0.07**	0.02
Benzidine	5	< 4.9	4.9	< 4.5	4.5
Benzo(a)pyrene		**0.07**	0.02	**0.05**	0.02
Benzo(b)fluoranthene	0.002	**0.07**	0.02	**0.05**	0.02
Benzo(g,h,i)perylene		**0.04**	0.02	**0.03**	0.02
Benzo(k)fluoranthene	0.002	**0.03**	0.02	**0.03**	0.02
Benzoic Acid		**15**	27	**16**	25
Benzyl Butyl phthalate		< 5.4	5.4	< 5.0	5
Bis(2-chloroethoxy)methane	5	< 5.4	5.4	< 5.0	5
Bis(2-chloroethyl)ether	1	< 1.1	1.1	< 1.0	1
Bis(2-chloroisopropyl)ether		< 5.4	5.4	< 5.0	5
Bis(2-ethylhexyl)phthalate	5	**3.3**	1.1	**1**	1
Carbazole		< 27	27	< 25	25
Chrysene	0.002	**0.07**	0.02	**0.05**	0.02
Dibenzo(a,h)anthracene		< 0.02	0.02	< 0.02	0.02
Dibenzofuran		< 5.4	5.4	< 5.0	5
Diethylphthalate	50	< 5.4	5.4	< 5.0	5
Dimethylphthalate	50	< 5.4	5.4	< 5.0	5
Di-n-butylphthalate	50	< 5.4	5.4	< 5.0	5
Di-n-octylphthalate	50	< 5.4	5.4	< 5.0	5
Fluoranthene	50	< 5.4	5.4	< 5.0	5
Hexachlorobenzene	0.04	< 0.02	0.02	< 0.02	0.02
Fluorene	50	< 5.4	5.4	< 5.0	5
Hexachlorobutadiene	0.5	< 5.4	5.4	< 5.0	5
Hexachlorocyclopentadiene	5	< 5.4	5.4	< 5.0	5
Hexachloroethane	5	< 0.54	0.54	< 0.50	0.5
Indeno(1,2,3-cd)pyrene	0.002	**0.02**	0.02	< 0.02	0.02
Isophorone	50	< 5.4	5.4	< 5.0	5
Naphthalene	10	**4.9**	5.4	**7.1**	5
Nitrobenzene	0.4	< 0.11	0.11	< 0.10	0.1
N-Nitrosodimethylamine		< 1.1	1.1	< 1.0	1
N-Nitrosodi-n-propylamine		< 5.4	5.4	< 5.0	5
N-Nitrosodiphenylamine	50	< 5.4	5.4	< 5.0	5
Pentachloronitrobenzene		< 0.11	0.11	< 0.10	0.1
Pentachlorophenol		< 0.86	0.86	< 0.80	0.8
Phenanthrene	50	**0.26**	0.11	**0.27**	0.1
Phenol		< 1.1	1.1	< 1.0	1
Pyrene	50	< 5.4	5.4	< 5.0	5
Pyridine		< 11	11	< 10	10

Notes:
ND - Not detected
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8
87-67 171st Street,
Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards µg/L	MW2 5/20/2014 µg/L Result	MW2 5/20/2014 µg/L RL	Duplicate 5/20/2014 µg/L Result	Duplicate 5/20/2014 µg/L RL
PCB-1016	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1221	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1232	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1242	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1248	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1254	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1260	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1262	**0.09**	< 0.072	0.072	< 0.072	0.072
PCB-1268	**0.09**	< 0.072	0.072	< 0.072	0.072
4,4-DDD	**0.3**	< 0.010	0.01	< 0.010	0.01
4,4-DDE	**0.2**	< 0.010	0.01	< 0.010	0.01
4,4-DDT	**0.11**	< 0.010	0.01	< 0.010	0.01
a-BHC	**0.94**	< 0.005	0.005	< 0.006	0.006
a-Chlordane		< 0.010	0.01	< 0.010	0.01
Alachlor		< 0.075	0.075	< 0.075	0.075
Aldrin		< 0.002	0.002	< 0.002	0.002
b-BHC	**0.04**	< 0.005	0.005	< 0.005	0.005
Chlordane	**0.05**	< 0.10	0.1	< 0.10	0.1
d-BHC	**0.04**	< 0.005	0.005	< 0.006	0.006
Dieldrin	**0.004**	< 0.002	0.002	< 0.002	0.002
Endosulfan I		< 0.010	0.01	< 0.010	0.01
Endosulfan II		< 0.010	0.01	< 0.010	0.01
Endosulfan Sulfate		< 0.010	0.01	< 0.010	0.01
Endrin		< 0.010	0.01	< 0.010	0.01
Endrin aldehyde	**5**	< 0.010	0.01	< 0.010	0.01
Endrin ketone		< 0.010	0.01	< 0.010	0.01
gamma-BHC	**0.05**	< 0.005	0.005	< 0.005	0.005
g-Chlordane		< 0.010	0.01	< 0.010	0.01
Heptachlor	**0.04**	< 0.016	0.016	< 0.017	0.017
Heptachlor epoxide	**0.03**	< 0.010	0.01	< 0.010	0.01
Methoxychlor	**35**	< 0.10	0.1	< 0.10	0.1
Toxaphene		< 0.25	0.25	< 0.25	0.25

Notes:
ND - Non-detect
ND* - Due to matrix interference from non target compounds in the sample an elevated RL was
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
87-67 171st Street,
Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards	MW2		Duplicate	
		5/20/2014		5/20/2014	
		mg/L		mg/L	
	mg/L	Result	RL	Result	RL
Aluminum	**NS**	**0.15**	0.01	**0.11**	0.01
Antimony	**0.003**	< 0.003	0.003	< 0.003	0.003
Arsenic	**0.025**	< 0.003	0.003	< 0.003	0.003
Barium	**1**	**0.199**	0.011	**0.197**	0.011
Beryllium	**0.003**	< 0.001	0.001	< 0.001	0.001
Cadmium	**0.005**	**0.001**	0.004	**0.001**	0.004
Calcium	**NS**	**118**	0.01	**115**	0.01
Chromium	**0.05**	**0.002**	0.001	**0.002**	0.001
Cobalt	**NS**	**0.181**	0.005	**0.178**	0.005
Copper	**0.2**	**0.005**	0.005	**0.006**	0.005
Iron	**0.5**	**1.49**	0.01	**1.4**	0.01
Lead	**0.025**	< 0.002	0.002	< 0.002	0.002
Magnesium	**35**	**27.5**	0.01	**26.7**	0.01
Manganese	**0.3**	**17.4**	0.053	**16.3**	0.053
Mercury	**0.0007**	< 0.0002	0.0002	< 0.0002	0.0002
Nickel	**0.1**	**0.401**	0.004	**0.394**	0.004
Potassium	**NS**	**10.9**	0.1	**10.8**	0.1
Selenium	**0.01**	< 0.004	0.004	< 0.004	0.004
Silver	**0.05**	< 0.005	0.005	< 0.005	0.005
Sodium	**2**	**44.1**	0.11	**43.3**	0.11
Thallium	**0.0005**	< 0.001	0.001	< 0.001	0.001
Vanadium	**NS**	< 0.011	0.011	< 0.011	0.011
Zinc	**2**	**0.02**	0.011	**0.02**	0.011

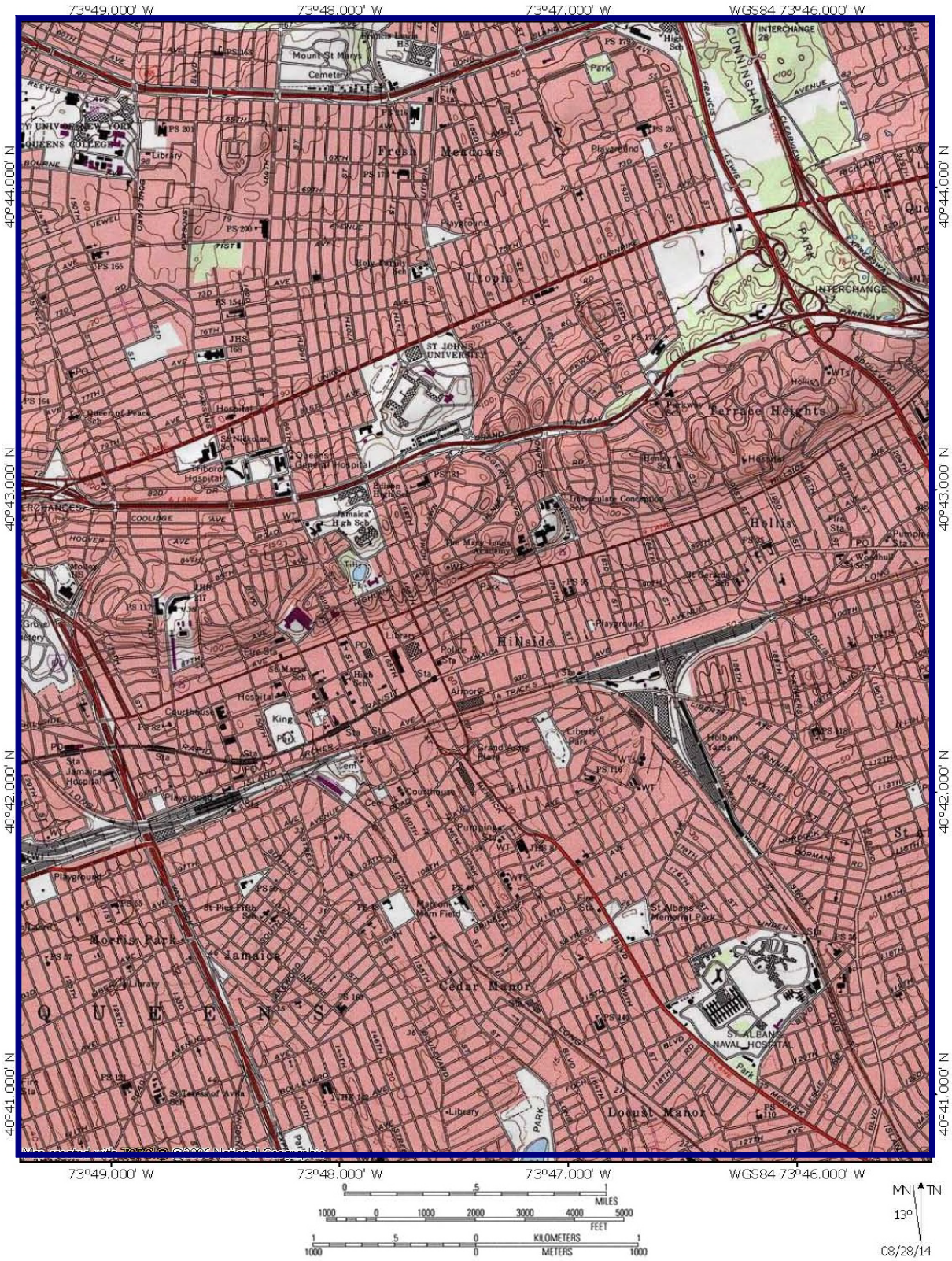
Notes:
BRL - Below Reporting Limit
NS - No Standard
Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 10
87-67 171st Street,
Brooklyn, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub-Slab Value (µg/m³) [a]	NYSDOH Soil Outdoor Background Levels (µg/m³) [b]	SG-1 (µg/m3)		SG-2 (µg/m3)		SG-3 (µg/m3)	
			Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane			< 1.00	1	< 1.00	1	< 1.00	1
1,1,1-Trichloroethane	30	<2.0 - 2.8	< 1.00	1	< 1.00	1	< 1.00	1
1,1,2,2-Tetrachloroethane		<1.5	< 1.00	1	< 1.00	1	< 1.00	1
1,1,2-Trichloroethane		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
1,1-Dichloroethane		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
1,1-Dichloroethene		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
1,2,4-Trichlorobenzene		NA	< 1.00	1	< 1.00	1	< 1.00	1
1,2,4-Trimethylbenzene		<1.0	**33.5**	1	**36.2**	1	**35.8**	1
1,2-Dibromoethane		<1.5	< 1.00	1	< 1.00	1	< 1.00	1
1,2-Dichlorobenzene		<2.0	< 1.00	1	< 1.00	1	< 1.00	1
1,2-Dichloroethane		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
1,2-Dichloropropane			< 1.00	1	< 1.00	1	< 1.00	1
1,2-Dichlorotetrafluoroethane			< 1.00	1	< 1.00	1	< 1.00	1
1,3,5-Trimethylbenzene		<1.0	**13.4**	1	**14.6**	1	**14.6**	1
1,3-Butadiene		NA	< 1.00	1	< 1.00	1	< 1.00	1
1,3-Dichlorobenzene		<2.0	**5.83**	1	**6.07**	1	**1.8**	1
1,4-Dichlorobenzene		NA	< 1.00	1	< 1.00	1	< 1.00	1
1,4-Dioxane			< 1.00	1	< 1.00	1	< 1.00	1
2-Hexanone			**95.8**	1	**124**	1	**99.9**	1
4-Ethyltoluene		NA	**4.42**	1	**4.52**	1	**4.52**	1
4-Isopropyltoluene			**4.99**	1	**6.09**	1	**5.92**	1
4-Methyl-2-pentanone			< 1.00	1	< 1.00	1	< 1.00	1
Acetone		NA	**2,110**	1	**7,410**	1	**4,600**	1
Acrylonitrile			< 1.00	1	< 1.00	1	< 1.00	1
Benzene		<1.6 - 4.7	< 1.00	1	**1.6**	1	**1.02**	1
Benzyl Chloride		NA	< 1.00	1	< 1.00	1	< 1.00	1
Bromodichloromethane		<5.0	< 1.00	1	< 1.00	1	< 1.00	1
Bromoform		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
Bromomethane		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
Carbon Disulfide		NA	**1.15**	1	**10**	1	**1.15**	1
Carbon Tetrachloride	5	<3.1	**0.314**	0.25	**0.943**	0.25	**0.314**	0.25
Chlorobenzene		<2.0	< 1.00	1	< 1.00	1	< 1.00	1
Chloroethane		NA	< 1.00	1	< 1.00	1	< 1.00	1
Chloroform		<2.4	**1.17**	1	**8.54**	1	< 1.00	1
Chloromethane		<1.0 - 1.4	< 1.00	1	**1.03**	1	< 1.00	1
cis-1,2-Dichloroethene		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
cis-1,3-Dichloropropene		NA	< 1.00	1	< 1.00	1	< 1.00	1
Cyclohexane		NA	**2.3**	1	< 1.00	1	< 1.00	1
Dibromochloromethane		<5.0	< 1.00	1	< 1.00	1	< 1.00	1
Dichlorodifluromethane		NA	**2.37**	1	**1.33**	1	**2.17**	1
Ethanol			**145**	1	**422**	1	**239**	1
Ethyl Acetate		NA	**3.56**	1	**11.9**	1	**7.71**	1
Ethylbenzene		<4.3	**3.21**	1	**3.43**	1	**3.12**	1
Heptane		NA	**22.2**	1	**37.6**	1	**28.4**	1
Hexachlorobutadiene		NA	< 1.00	1	< 1.00	1	< 1.00	1
Hexane		<1.5	**11.9**	1	**25.5**	1	**17**	1
Isopropylalcohol		NA	**106**	1	**698**	1	**317**	1
Isopropylbenzene			**2.36**	1	**2.7**	1	**2.55**	1
Xylene (m&p)		<4.3	**9.59**	1	**11.3**	1	**10.3**	1
Methyl Ethyl Ketone			**424**	1	**1,040**	1	**769**	1
MTBE		NA	< 1.00	1	< 1.00	1	< 1.00	1
Methylene Chloride		<3.4	**12.6**	1	**3.61**	1	**2.22**	1
n-Butylbenzene			**6.2**	1	**6.36**	1	**6.14**	1
Xylene (o)		<4.3	**4.34**	1	**5.21**	1	**4.6**	1
Propylene		NA	**72.9**	1	**564**	1	**254**	1
sec-Butylbenzene			**4.22**	1	**4.77**	1	**4.61**	1
Styrene		<1.0	< 1.00	1	< 1.00	1	< 1.00	1
Tetrachloroethene	30		**7.39**	0.25	**22**	0.25	**9.76**	0.25
Tetrahydrofuran		NA	< 1.00	1	< 1.00	1	< 1.00	1
Toluene		1.0 - 6.1	**9.38**	1	**11.8**	1	**10.4**	1
trans-1,2-Dichloroethene		NA	< 1.00	1	< 1.00	1	< 1.00	1
trans-1,3-Dichloropropene		NA	< 1.00	1	< 1.00	1	< 1.00	1
Trichloroethene	5	<1.7	**0.806**	0.25	**3.87**	0.25	**1.18**	0.25
Trichlorofluoromethane		NA	**1.01**	1	**1.01**	1	< 1.00	1
Trichlorotrifluoroethane			< 1.00	1	< 1.00	1	< 1.00	1
Vinyl Chloride		<1.0	< 0.25	0.25	< 0.25	0.25	< 0.25	0.25

Notes:
NA No guidance value or standard available
(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006. New York State Department of Health.
(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)
Value detected above NYSDOH Air Guidance Value of 5 µg/m3, which according to Soil Vapor/Indoor Air Matrix 1 would require at a minimum, monitoring.
Value detected above NYSDOH Air Guidance Value of 100 µg/m3, which according to Soil Vapor/Indoor Air Matrix 2 would require at a minimum, monitoring.

FIGURES



USGS South Amboy, NJ-NY Quadrangle 1995, Contour Interval = 10 feet

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87-67 171st St, Queens, NY

FIGURE 1 SITE LOCATION MAP

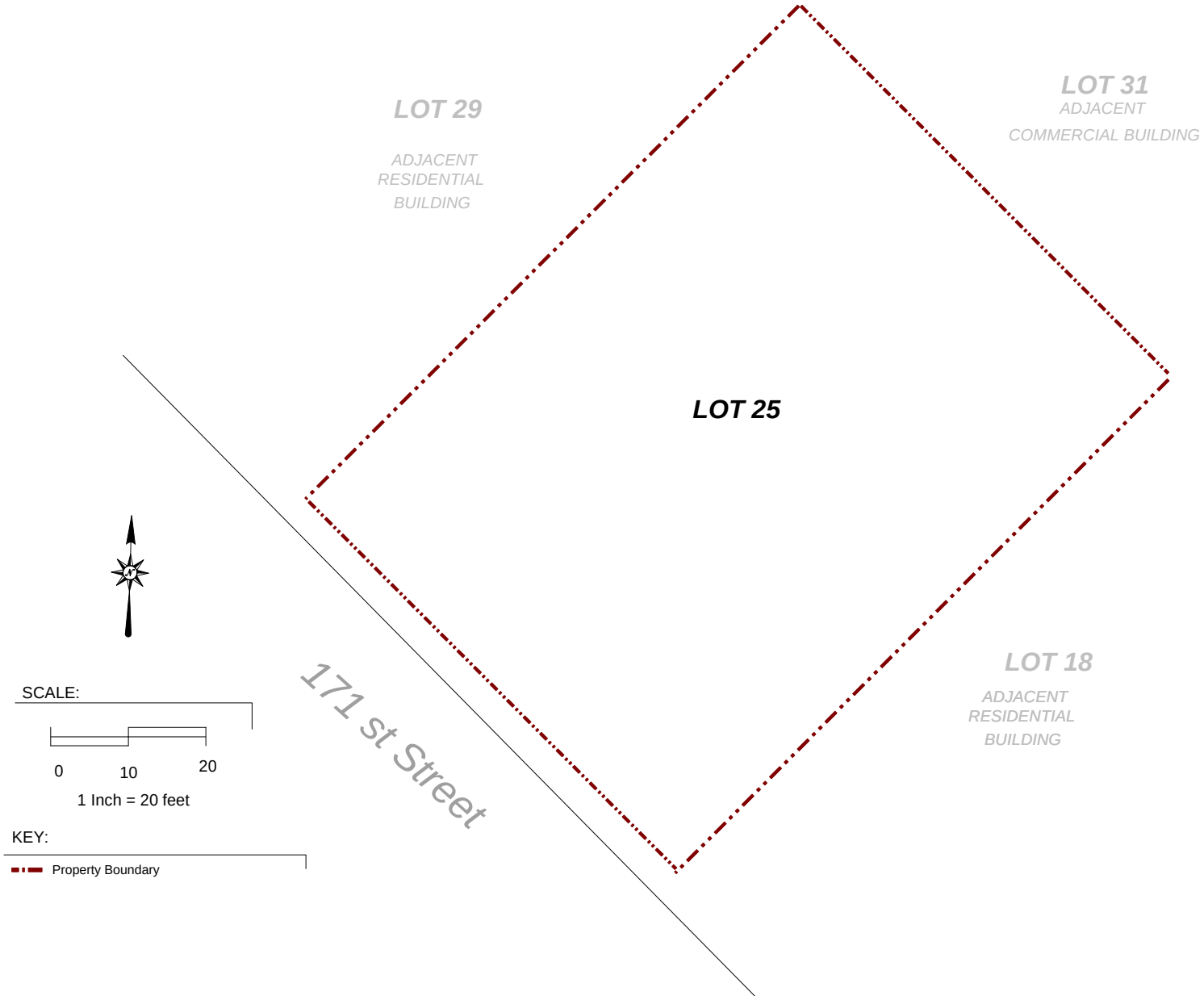

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FIGURE 2 Site Sampling Locations

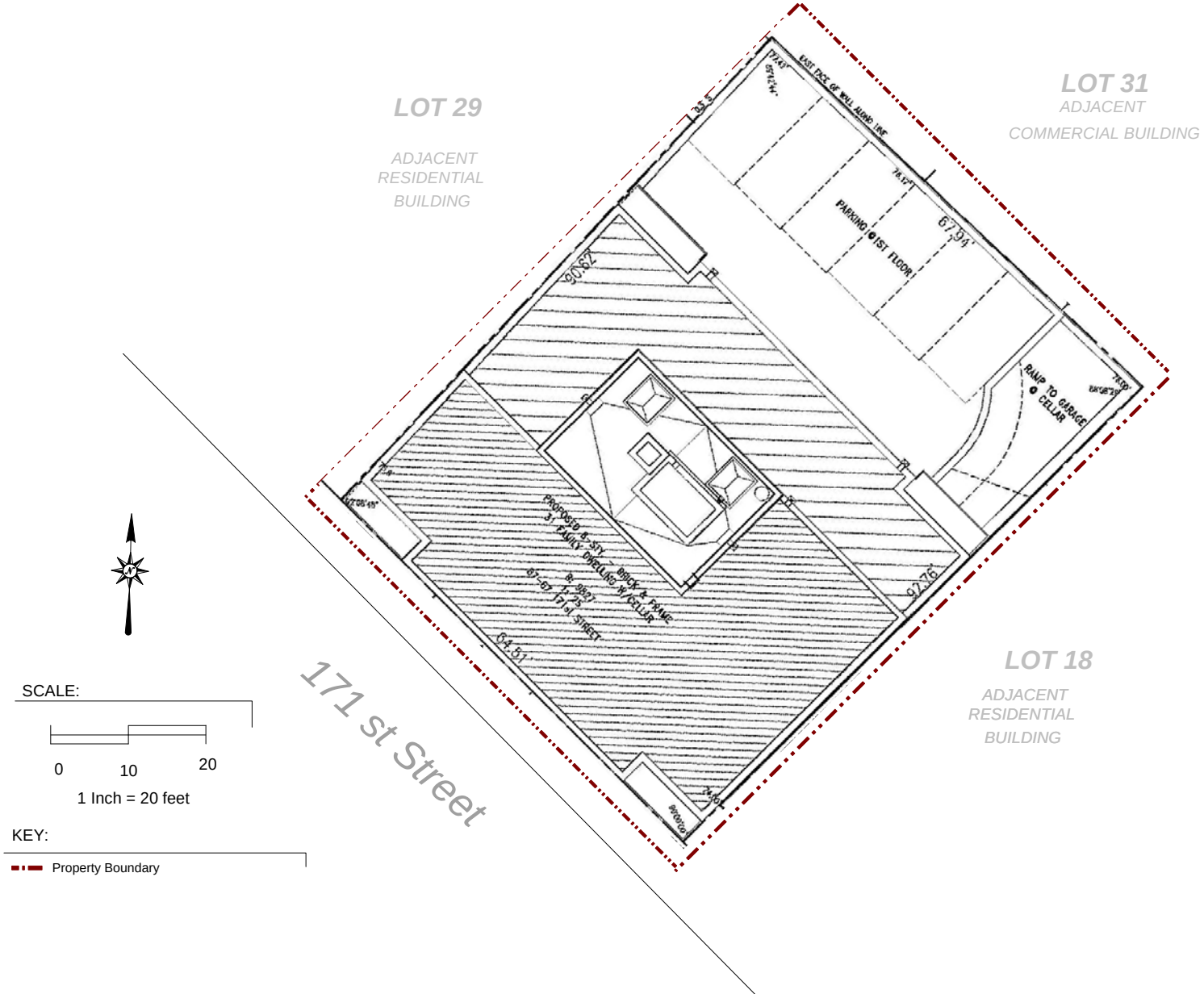

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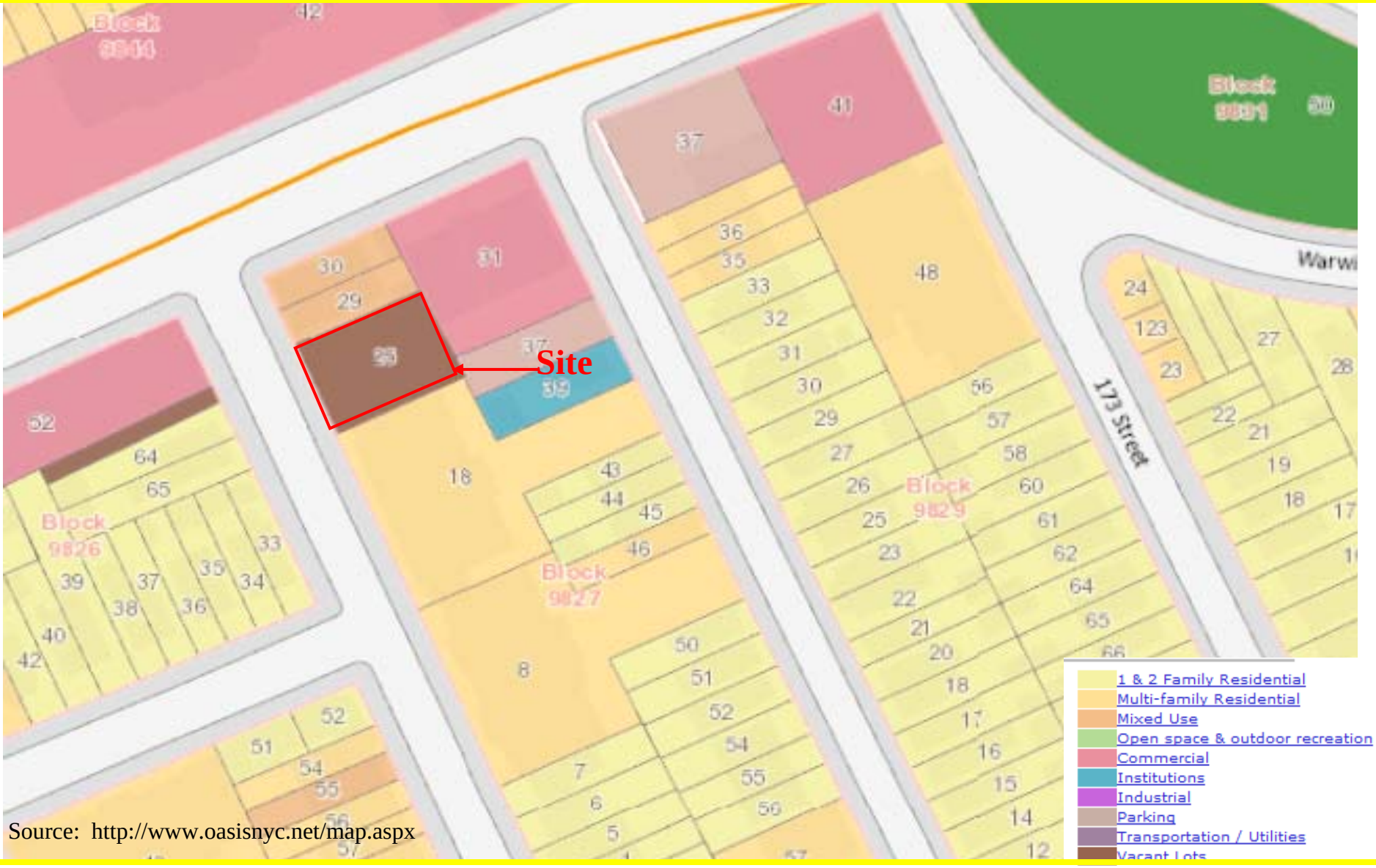
FIGURE 3 Redevelopment Plan



Source: http://www.oasisnyc.net/map.aspx

FIGURE 4
SURROUNDING LAND USE MAP

87-67 171st Street, QUEENS, NY

REMEDIAL INVESTIGATION REPORT

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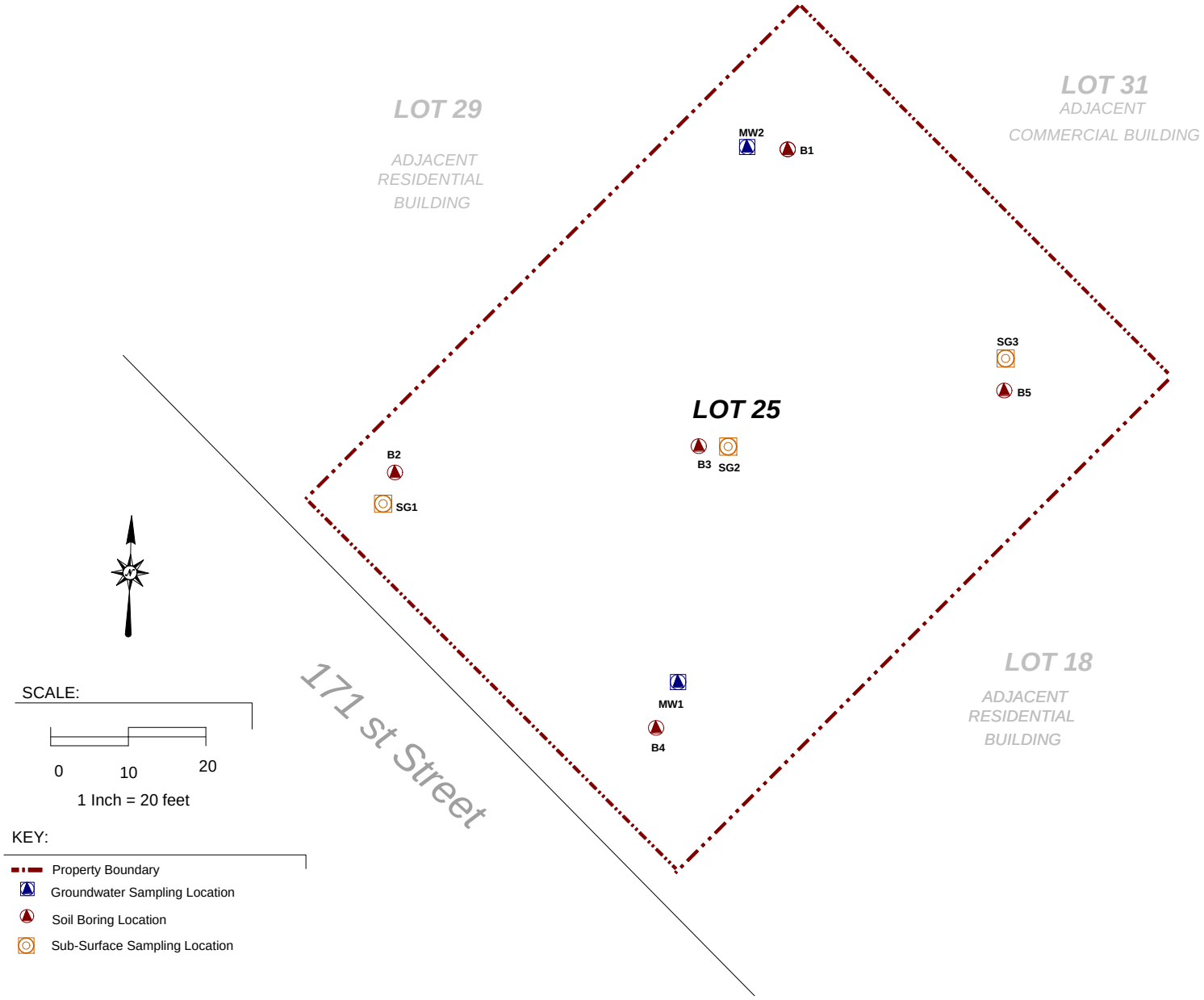

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87-67 171st Street
Brooklyn, NY

FIGURE 5 Site Sampling Locations

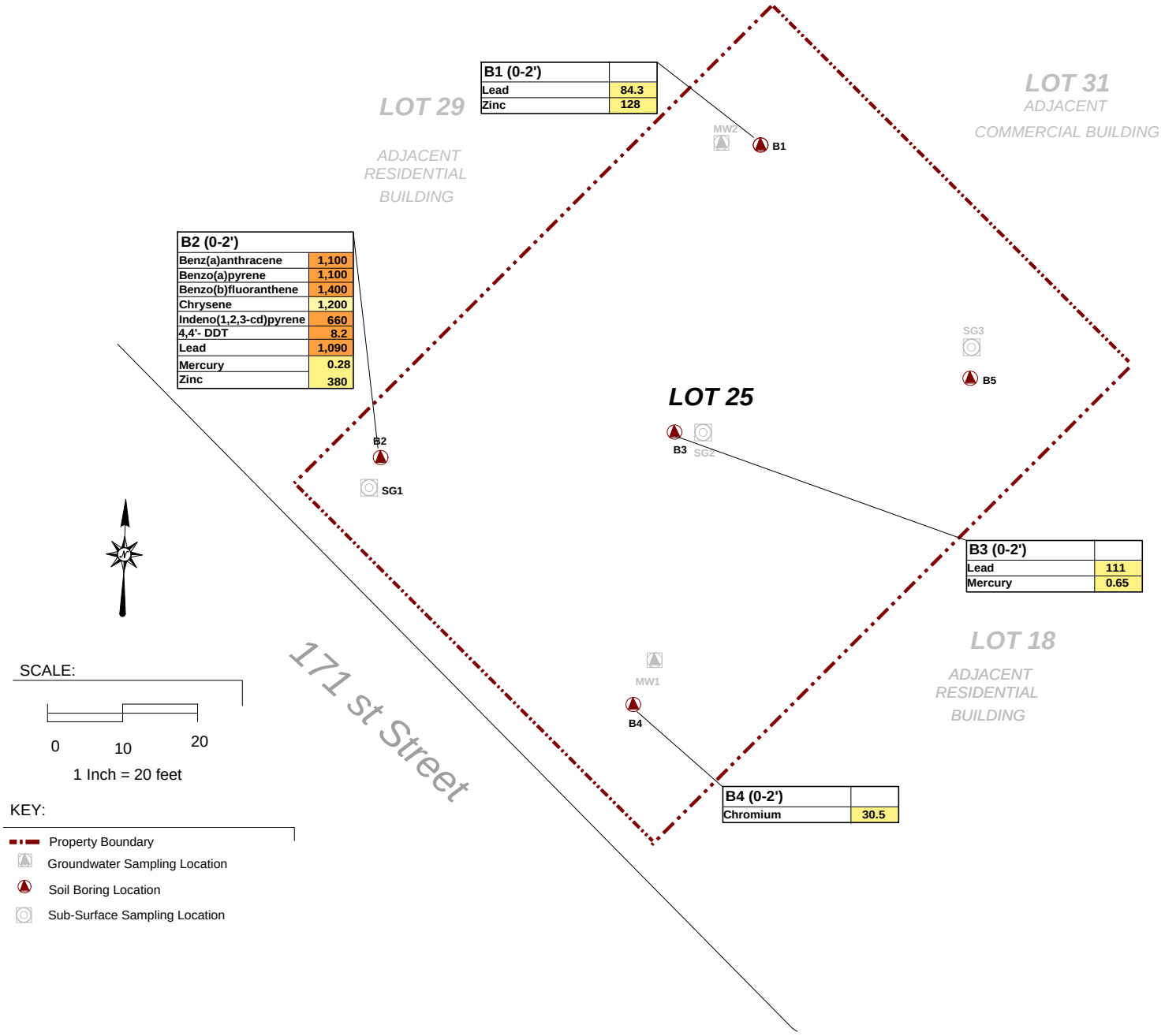

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Figure No. 6

Site Name: Redevelopment Project
Site Address: 87-67 171st Street, Queens, NY
Drawing Title: Soil Exceedences

MW2

VOCs (ug/L)	
1,2,4- Trimethylbenzene	18
1,3,5- Trimethylbenzene	7.3
Xylene (m&p)	16
Naphthalene	16
Xylene (o)	12
Tetrachloroethene	7.9
Toluene	9.5
SVOCs (ug/L)	
Benzo(a)anthracene	0.1
Benzo(b)fluoranthene	0.07
Benzo(k)fluroanthene	0.03
Chrysene	0.07
Indeno(1,2,3-cd)pyrene	0.02
Dissolved Metals (mg/L)	
Iron	1.49
Manganese	17.4
Nickel	0.401
Sodium	44.1

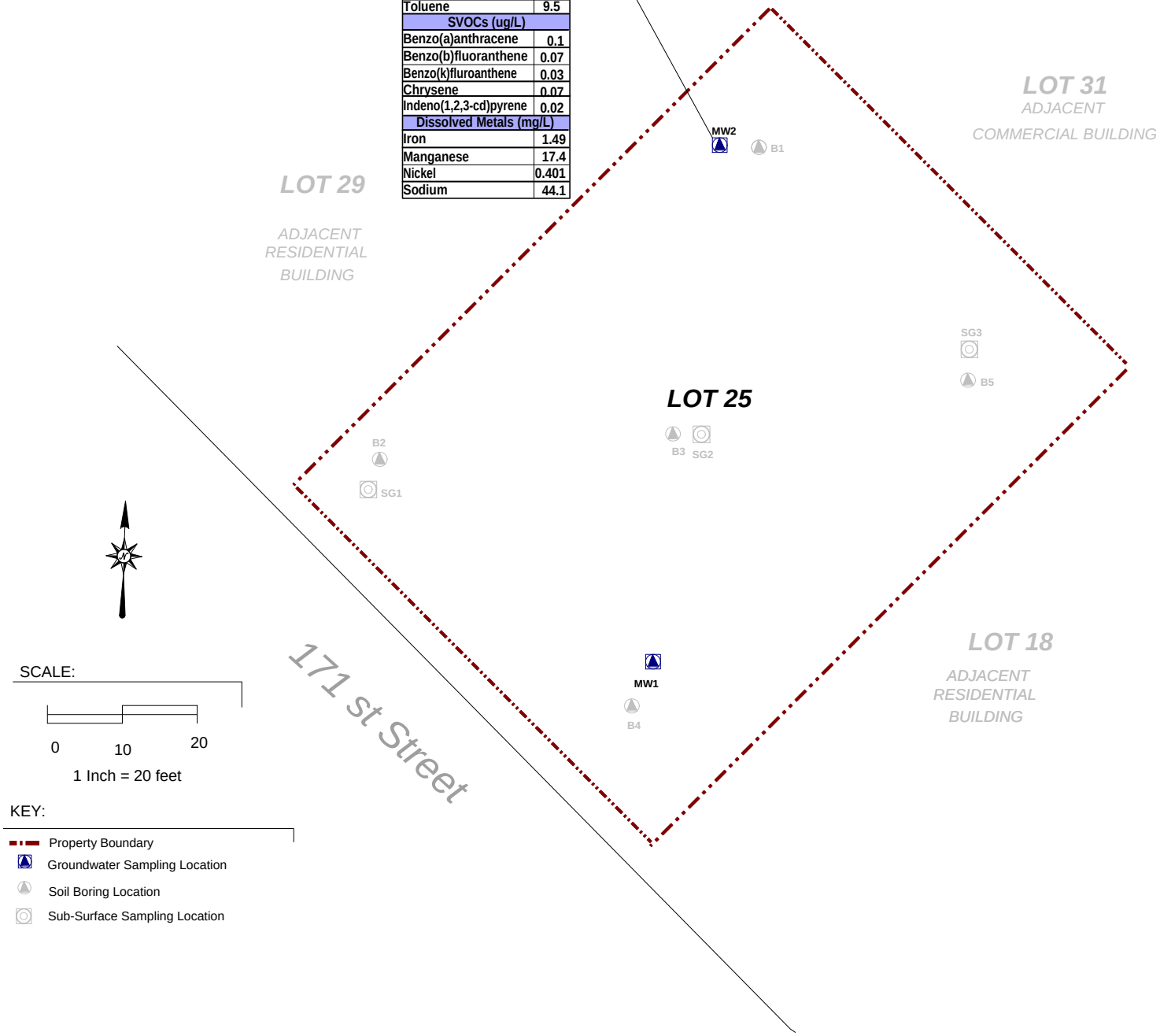

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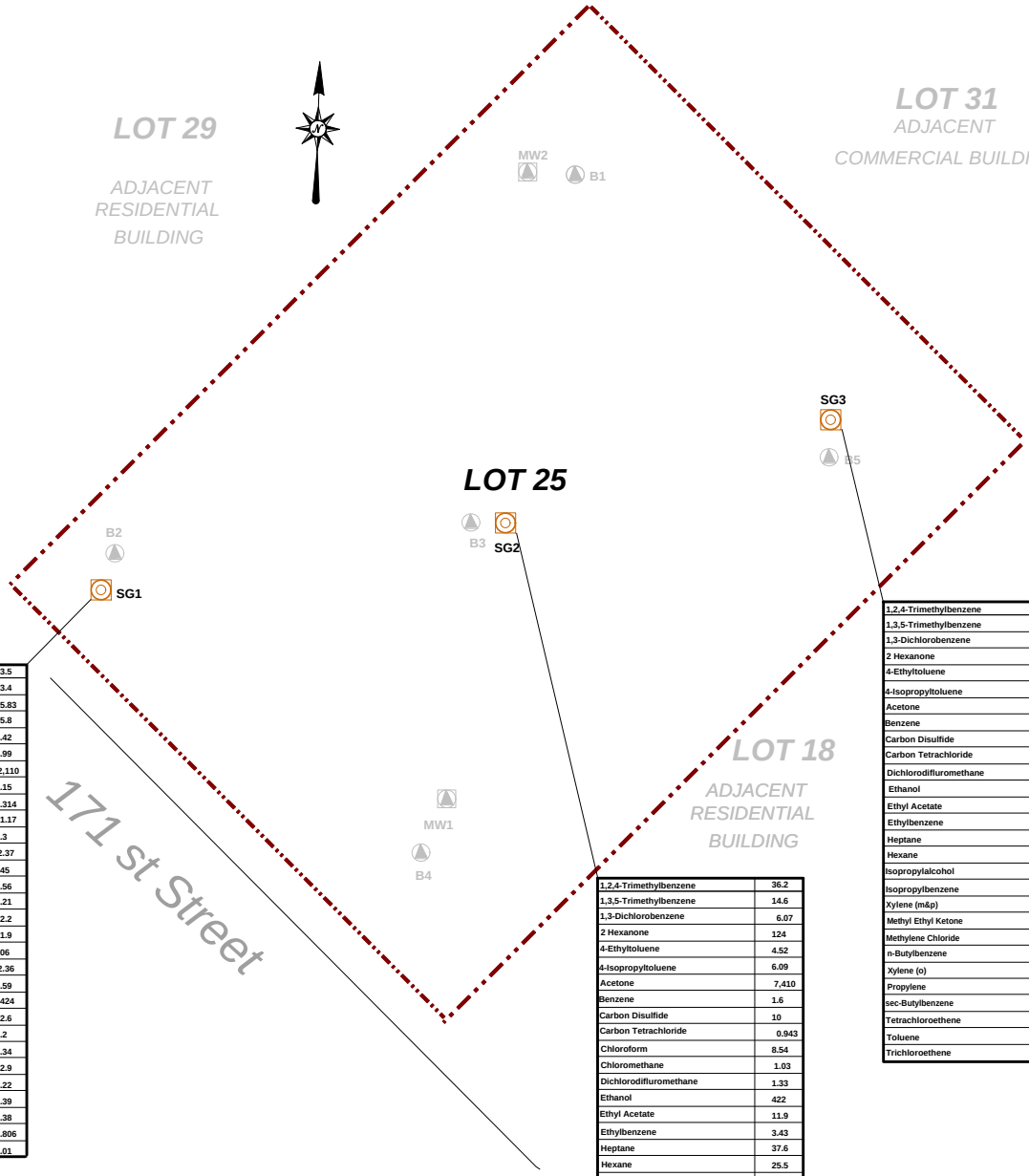
Figure No. 7

Site Name: Redevelopment Project
Site Address: 802-806 Myrtle Avenue, Brooklyn, NY
Drawing Title: Groundwater Exceedences



1,2,4-Trimethylbenzene	33.5
1,3,5-Trimethylbenzene	13.4
1,3-Dichlorobenzene	5.83
2 Hexanone	95.8
4-Ethyltoluene	4.42
4-Isopropyltoluene	4.99
Acetone	2,110
Carbon Disulfide	1.15
Carbon Tetrachloride	0.314
Chloroform	1.17
Cyclohexane	2.3
Dichlorodifluromethane	2.37
Ethanol	145
Ethyl Acetate	3.56
Ethylbenzene	3.21
Heptane	22.2
Hexane	11.9
Isopropylalcohol	106
Isopropylbenzene	2.36
Xylene (m&p)	9.59
Methyl Ethyl Ketone	424
Methylene Chloride	12.6
n-Butylbenzene	6.2
Xylene (o)	4.34
Propylene	72.9
sec-Butylbenzene	4.22
Tetrachloroethene	7.39
Toluene	9.38
Trichloroethene	0.806
Trichlorofluoromethane	1.01

1,2,4-Trimethylbenzene	36.2
1,3,5-Trimethylbenzene	14.6
1,3-Dichlorobenzene	6.07
2 Hexanone	124
4-Ethyltoluene	4.52
4-Isopropyltoluene	6.09
Acetone	7,410
Benzene	1.6
Carbon Disulfide	10
Carbon Tetrachloride	0.943
Chloroform	8.54
Chloromethane	1.03
Dichlorodifluromethane	1.33
Ethanol	422
Ethyl Acetate	11.9
Ethylbenzene	3.43
Heptane	37.6
Hexane	25.5
Isopropylalcohol	698
Isopropylbenzene	2.7
Xylene (m&p)	11.3
Methyl Ethyl Ketone	1,040
Methylene Chloride	3.61
n-Butylbenzene	6.36
Xylene (o)	5.21
Propylene	564
sec-Butylbenzene	4.77
Tetrachloroethene	22
Toluene	11.8
Trichloroethene	3.87
Trichlorofluoromethane	1.01

1,2,4-Trimethylbenzene	35.8
1,3,5-Trimethylbenzene	14.6
1,3-Dichlorobenzene	1.8
2 Hexanone	99.9
4-Ethyltoluene	4.52
4-Isopropyltoluene	5.92
Acetone	4,600
Benzene	1.02
Carbon Disulfide	1.15
Carbon Tetrachloride	0.314
Dichlorodifluromethane	2.17
Ethanol	239
Ethyl Acetate	7.71
Ethylbenzene	3.12
Heptane	28.4
Hexane	17
Isopropylalcohol	317
Isopropylbenzene	2.55
Xylene (m&p)	10.3
Methyl Ethyl Ketone	769
Methylene Chloride	2.22
n-Butylbenzene	6.14
Xylene (o)	4.6
Propylene	254
sec-Butylbenzene	4.61
Tetrachloroethene	9.76
Toluene	10.4
Trichloroethene	1.18

SCALE:

0 10 20

1 Inch = 20 feet

KEY:

- Property Boundary
- Groundwater Sampling Location
- Soil Boring Location
- Sub-Surface Sampling Location

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Figure No. 8

Site Name: Redevelopment Project

Site Address: 802-806 Myrtle Avenue, Brooklyn, NY

Drawing Title: Soil Vapor Detections

ATTACHMENT A
PHASE II REPORT

ATHENICA ENVIRONMENTAL SERVICES, INC.
Environmental Consultants

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

87-67 171ST STREET
QUEENS, NY 11432

ATHENICA PROJECT NUMBER
13-1405

PREPARED FOR:

Vikram Construction, Inc.
8152 Little Neck Parkway
Queens, NY 11004

October 16, 2013

45-09 Greenpoint Avenue · LIC, NY 11104 · Tel: (718) 784-7490 · Fax: (718) 784-4085 · www.athenica.com

PHASE I ENVIRONMENTAL SITE ASSESSMENT
87-67 171st Street
Queens, NY 11432

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GENERAL INFORMATION

Project Information:
87-67 171st St.
Project Number:
13-1405

Consultant Information:
Athenica Environmental Services Inc.
45-09 Greenpoint Avenue
Long Island City, NY 11104
Phone: 718-784-7490
Fax: 718-784-4085
E-mail Address:
Inspection Date:
Report Date: 10/16/2013

Site Information:
n/a
87-67 171st Street
Queens, NY 11432
Latitude, Longitude: 40.711100, -73.790800
Site Access Contact: Harjit Singh

Client Information:
Vikram Construction, Inc.

8152 Little Neck Parkway
Queens, NY 11004

Site Assessor: _____ *On Behalf Of John Danko - Environmental Scientist*
Jeffrey Strykowski
Environmental Scientist

Senior Reviewer: _____
Spiro Dongaris
President

Certification:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Spiro Dongaris - President

EXECUTIVE SUMMARY

On October 9th 2013, Athenica Environmental Services, Inc. (Athenica) conducted a Phase I Environmental Site Assessment (ESA) of the property located at 87-67 171st Street in the Borough of Queens, New York, herein referred to as "the Site". The location of the Site is shown on Figure 1 in Appendix A. This assessment was conducted in substantial compliance with the American Society for Testing and Materials (ASTM) Practice Designation E1527-05: Standard Practice for ESAs: Phase I ESA Process.

The purpose of this ESA is to identify, to the extent feasible, recognized environmental conditions (RECs) in connection with the Site. The Phase I ESA was performed at the request of Vikram Construction Inc. as part of typical environmental due diligence prior to the acquisition of the property.

The Site consists of a 5,926 square-foot unpaved vacant lot. Thus, there are no structures on the Site.

The north-adjacent property consists of a 2-story office building occupied by medical and dental offices. The south-adjacent property consists of a 7-story apartment building. The east-adjacent property consists of a 1-story car wash. The west-adjacent property, across 171st Street, consists of two 2-story residential dwellings.

This assessment has revealed no RECs in connection with the Site. However, the Site has an "E" zoning designation for hazardous materials due to a re-zoning action of the surrounding area. For this reason only, a Phase II Site Assessment will need to be performed in accordance with requirements of New York City's "E" designation program if changes in the current Site use will occur.

On-Site REC

Hazard	Acceptable	Acceptable, Requires O/M	Fail	Fail, Possible Remedy Required	Phase II Recommended
PCBs	X				
UST/AST/LUST	X				
Spills	X				
Other Petroleum Issues	X				
Hazardous Substance/Waste	X				
Asbestos	X				
Lead-Based Paint	X				
Radon	X				
Other	X				

Off-Site REC

Hazard	Acceptable	Acceptable, Requires O/M	Fail	Fail, Possible Remedy Required	Phase II Recommended
PCBs	X				
UST/AST/LUST	X				
Spills	X				
Other Petroleum Issues	X				
Hazardous Substance/Waste	X				
Other	X				

1.0 INTRODUCTION

On October 9, 2013, Athenica Environmental Services, Inc. (Athenica) conducted a Phase I Environmental Site Assessment (ESA) of the property located at 87-67 171st Street in the Borough of Queens, New York, herein referred to as "the Site". The location of the Site is shown on Figure 1 in Appendix A. This assessment was conducted in substantial compliance with the American Society for Testing and Materials (ASTM) Practice Designation E1527-05: Standard Practice for ESAs: Phase I ESA Process.

1.1 Purpose

The purpose of this ESA is to identify, to the extent feasible, RECs in connection with the Site.

1.2 Scope-of-Services

This Phase I ESA was conducted utilizing a standard of good residential and customary practice that was consistent with the ASTM Standard Practice E 1527-05. Any significant scope-of-work additions, deletions or deviations to ASTM Practice E 1527-05 are included in appropriate sections of this report. In accordance with the above-referenced agreement, Athenica performed walk-through observations of the Site, noted the use of adjacent properties, and conducted a search of readily available historical and regulatory records. More specifically, the scope of services included the following:

- Site and Adjacent Property Observations
  Visual observations of the Site, structures, and surrounding properties were made to identify potential sources or indications of chemical and/or petroleum impacts such as underground storage tanks (USTs), aboveground storage tanks (ASTs), potential sources of polychlorinated biphenyls (PCBs), chemicals and hazardous materials, and areas with surface stains or distressed vegetation. In addition, the immediately adjacent properties were observed, without being entered, for possible sources of impacts or environmental impairment that could migrate to the site via surface water runoff, groundwater transport, or other pathways. Photographs documenting Site and adjacent property observations are included in Appendix B.
- Geological Information
  Published geological and groundwater information for the Site was obtained from the United States Geological Survey (USGS) Hydrogologic Investigations Atlas: Hydrogologic Framework of Long Island, New York (1989).
- Historical Review
  Reviews of historical Sanborn Fire Insurance maps, City Directories, and historical aerial photographs were conducted for the Site and adjacent properties to evaluate previous land use. Copies of the available historical Sanborn Fire Insurance maps, City Directories and historical aerial photographs are included in Appendix D, E and F, respectively.
- Federal, State, Tribal and Local Regulatory Review
  A Federal, State, Tribal and Local regulatory database review was completed and supplied to Athenica by EDR. A complete listing of all of the databases included in the review is available in Section 4.0 of this report. A copy of the full EDR database report is included in Appendix C.
- Interviews
  Interviews were conducted with persons familiar with the Site regarding possible past or present use of potentially hazardous materials at the Site, and other issues of potential interest relative to potential environmental conditions.
- Local Building and Tax Information Records Review
  Local building and tax information records were obtained from New York City via the Internet and reviewed to identify potential environmental issues of concern. Copies of the local records obtained from New York City agencies are included in Appendix G.
- Environmental Lien and AUL Search Review
  Environmental lien and Activity and Use Limitations (AUL) review was completed and supplied to Athenica by EDR. A discussion of the environmental lien and AUL search review is presented in Section 3.2. A copy of the EDR Environmental Lien and AUL search is included in Appendix G.

Please note that the scope of work for this Phase I ESA does NOT include collection of samples or materials for testing, including testing of soils or groundwater, lead-based paint, lead in drinking water, asbestos-containing materials (ACMs), etc.

1.3 Assumptions, Limitations and Exceptions

Athenica has prepared this Phase I ESA using reasonable efforts in each phase of its work to identify RECs associated with hazardous substances or petroleum products at the Site. The scope-of-work for this Phase I ESA was consistent with the ASTM Practice E 1527-05. Findings within this report are based on information collected from observations made on the day of the Site investigation and from reasonably ascertainable information obtained from governing public agencies and referenced sources.

Athenica's professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. Athenica is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, site observations, field exploration, and laboratory test data presented in this report.

This report is intended for the sole use of the Client. It should be noted that environmental evaluations are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and Site evaluations. For these types of evaluations, it is often necessary to use information prepared by others, and Athenica cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this Site and surrounding properties. This report does not warrant against future operations or conditions, nor does it warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit and is not intended to satisfy the requirements of any state, federal, or local real estate transfer laws.

Subsurface conditions were not field investigated, as this was outside the scope of this study, and may differ from the conditions implied by the surficial observations. This study is not intended to assess or otherwise determine if soil impacts, waste emplacement, or groundwater impacts exist. These data are accessible only by subsurface material and groundwater sampling through the completion of soil borings and the installation of monitoring wells. The scope of work, in accordance with our agreement, did not include these activities.

It must be noted that no evaluation, no matter how thorough, can absolutely rule out the existence of hazardous materials at a given Site. This assessment has been based on prior Site history and observable conditions. Existing hazardous materials and hazardous substances can escape detection using these methods. Therefore, if a higher level of confidence is required than can be defined by the Phase I scope of work, additional evaluation would, of course, be required.

Our conclusions regarding the potential environmental impact of nearby, off-site facilities on the Site are based on readily available information from the environmental databases listed and the presumed groundwater flow direction based on surface topography. A detailed file review of each facility was beyond the scope of work. Actual groundwater conditions, including direction of flow, can only be determined through the installation of monitoring wells.

Athenica does not warrant the correctness, completeness, currentness, merchantability, or fitness of any information related to records review provided in this report. Such information is not the product of an independent review conducted by Athenica, but is only publicly available environmental information maintained by federal, state, and local government agencies.

Deviations from ASTM Standard Practice E 1527-05 are described in Section 10.

1.4 Special Terms and Conditions (User Reliance)

This report may be relied upon by the undersigned or by any purchaser or assignee. In addition, the report may be relied upon by any rating agency involved in rating securities secured by, or representing an interest in, the Property Note. This report may be used in connection with materials offering for sale the Property Note, or an interest in the Property Note, and in presentations to any rating agency. With respect to the foregoing, the report speaks only as of the origination date of the report unless specifically updated through a supplemental report.

Athenica makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied. Athenica's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a maximum of no more than our contract price.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is located at 87-67 171st Street in the Borough of Queens, New York. It is defined on the New York City Department of Finance Tax Map as Block 9827, Lot 25.

2.2 Site and Vicinity General Characteristics

The Site is located within a primarily residential area of Queens, New York. The Site is zoned as a C2-4 commercial overlay in a R7X R6A zone, denoting it as a medium density residential district. The neighborhood is a mixture of residential apartments and separate commercial spaces.

2.3 Current Use of the Property

The Site consists of an unpaved vacant lot fronting 171st Street.

2.4 Description of Site Improvements

There are no current Site improvements. According to historic Sanborn Fire Insurance maps, a prior residential building had been built at the Site sometime after 1900 and prior to 1981.

2.5 Current Use of Adjoining Properties

Direction	Address	Description
North	87-59 171st Street Jamaica, NY 11432	A two-story commercial building used as a medical and dental office.
South	87-87 171st Street Jamaica, NY 11432	A seven-story residential apartment building.
East	171-16 Hillside Avenue Jamaica, NY 11432	A one-story commercial building used as a car-wash facility.
West	87-68;87-70 171st Street Jamaica, NY 11432	two-story residential buildings across the street (171st).

3.0 USER PROVIDED INFORMATION

As defined in ASTM E 1527-05 Standard, the User is the person or entity seeking to use this report. The following section summarizes information (if any) provided by the User with regard to the Site.

3.1 Title Records

The User did not provide Athenica with Title Records for the Site.

3.2 Environmental Liens or Activity and Use Limitations

Environmental liens and activity and use limitations (AULs) are indications of a past or present release of a hazardous substance of petroleum products. AULs are an explicit recognition by a federal, tribal, state, or local regulatory agency that residual levels of hazardous substances or petroleum products may be present on a property, and that unrestricted use of the property might not be acceptable.

EDR provided an environmental lien and AUL search report. According to the EDR report, there are no environmental lien or AULs associated with the Site. A copy of the EDR environmental liens and AUL search report is included in Appendix G.

3.3 Specialized Knowledge

The User indicated that it was not aware of any specialized knowledge or experience that was material to RECs in connection with the Site.

3.4 Valuation Reduction for Environmental Issues

The User indicated that it was not aware of information regarding valuation reduction for environmental issues.

3.5 Owner, Property Manager, and Occupant Information

The current owner and manager of the property is Kingstone Real Estate Development LLC. The Site is a vacant lot and therefore has no occupant.

3.6 Reason for Performing Phase I

The Phase I ESA was performed at the request of Vikram Construction, Inc. as part of their typical environmental due diligence prior to acquisition of the property.

4.0 RECORDS REVIEW

A review of databases and files from federal, state and local environmental regulatory agencies was conducted to identify use, generation, storage, treatment or disposal of hazardous materials and chemicals, or release incidents of such materials, that may impact the site. EDR provided the federal and state environmental database information to Athenica.

Federal, state, tribal and local database records were reviewed for the Site and those properties surrounding the Site. Information on the improper storage, handling, and/or disposal of hazardous substances, wastes, or petroleum products, on or adjacent to the Site, is provided within these records. Due to the density of the surrounding area, the evaluation and reporting of off-site properties were adjusted to a 1/8-mile radius of the Site for the following databases relating to petroleum storage and spills and generation and off-site disposal of hazardous waste: Resource Conservation Recovery Act Large Quantity Generators (RCRA LQGs), RCRA Small Quantity Generators (RCRA SQGs), RCRA Conditional Small Generators (RCRA CESQGs), New York State Leaking Tanks, New York State Historic Leaking Tanks, New York State Underground Storage Tanks (USTs), New York State Aboveground Storage Tanks (ASTs), RCRA NonGenerators, New York State Manifests, and New York Dry Cleaners.

The potential for the facilities identified by the database review to environmentally impact the Site within the aforementioned search distances was evaluated solely on the distance and presumed topographic orientation (with respect to groundwater flow) of each facility relative to the Site (i.e. upgradient, downgradient, cross-gradient). Furthermore, each facility's presumed topographic elevation orientation was determined solely by a review of available USGS quadrangle topographic maps. No attempt was made to verify the actual groundwater flow direction or to access regulatory agency files regarding the identified facilities, as this was beyond the scope of work for this project.

Following subsections provide a summary of the listings identified within applicable ASTM search radius or adjusted minimum search distance.

There are 20 orphan sites (sites with inadequate information to be mapped) listed on the regulatory database report. By cross-referencing the street names and other information identified in the database report, Athenica determined that one of these orphan sites is located within ASTM minimum search distances of the subject property, and upgradient with respect to presumed groundwater flow direction of the Site. This orphan site is listed on the RCRA-SQG database, and is further discussed in the respective subsection. The remaining 19 orphan sites are not located within the ASTM minimum search distance of the subject property, or are downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site.

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1	0	0	0	0	NR	0
Proposed NPL		1	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
DELISTED NPL		1	0	0	0	0	NR	0
CERCLIS		0.5	0	0	0	NR	NR	0
CERCLIS-NFRAP		0.5	0	0	0	NR	NR	0
CORRACTS		1	0	0	0	0	NR	0
RCRA-TSDF		0.5	0	0	0	NR	NR	0
RCRA-LQG		0.25	0	0	NR	NR	NR	0
RCRA-SQG		0.25	1	1	NR	NR	NR	2
RCRA-CESQG		0.25	1	0	NR	NR	NR	1
US ENG CONTROLS		0.5	0	0	0	NR	NR	0
US INST CONTROL		0.5	0	0	0	NR	NR	0
LUCIS		0.5	0	0	0	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
NY SHWS		1	0	0	0	3	NR	3
NY VAPOR REOPENED		1	0	0	0	1	NR	1
NY SWF/LF		0.5	0	0	4	NR	NR	4

NY LTANKS		0.5	2	12	40	NR	NR	54
NY HIST LTANKS		0.5	0	0	0	NR	NR	0
NY UST		0.25	6	13	NR	NR	NR	19
NY MOSF UST		0.5	0	0	0	NR	NR	0
NY AST		0.25	8	16	NR	NR	NR	24
NY MOSF AST		0.5	0	0	0	NR	NR	0
NY CBS		0.25	0	0	NR	NR	NR	0
NY ENG CONTROLS		0.5	0	0	0	NR	NR	0
NY INST CONTROL		0.5	0	0	0	NR	NR	0
NY RES DECL		0.125	0	NR	NR	NR	NR	0
NY VCP		0.5	0	0	0	NR	NR	0
NY ERP		0.5	0	0	0	NR	NR	0
NY BROWNFIELDS		0.5	0	0	0	NR	NR	0
US BROWNFIELDS		0.5	0	0	0	NR	NR	0
ODI		0.5	0	0	0	NR	NR	0
NY SWRCY		0.5	0	0	0	NR	NR	0
NY SWTIRE		0.5	0	0	0	NR	NR	0
US CDL		TP	NR	NR	NR	NR	NR	0
NY DEL SHWS		1	0	0	0	0	NR	0
LIENS 2		TP	NR	NR	NR	NR	NR	0
NY LIENS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
NY SPILLS		0.125	9	NR	NR	NR	NR	9
RCRA NonGen / NLR		0.25	2	2	NR	NR	NR	4
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
NY HSWDS		0.5	0	0	0	NR	NR	0
NY MANIFEST		0.25	3	4	NR	NR	NR	7
NY DRYCLEANERS		0.25	2	1	NR	NR	NR	3
NY SPDES		TP	NR	NR	NR	NR	NR	0
NY E DESIGNATION	X	0.125	15	NR	NR	NR	NR	16
EDR MGP		1	0	0	0	1	NR	1
EDR US Hist Auto Stat		0.25	1	5	NR	NR	NR	6
EDR US Hist Cleaners		0.25	4	4	NR	NR	NR	8

4.1 Federal Environmental Records

This section presents the findings of the database search report for Federal environmental records.

National Priorities List (NPL), Proposed NPL, NPL Liens and Delisted NPL

The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. Sites on the Proposed NPL have been proposed for listing through the issuance of a proposed rule in the Federal Register. The United States Environmental Protection Agency (US EPA) then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing. Sites that have established criteria that US EPA uses to delete sites from the NPL are listed on the Delisted NPL.

The Site is not listed on the NPL Liens database. Neither the Site nor properties within a 1-mile radius of the Site are listed on the NPL, Proposed NPL, or Delisted NPL database.

Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) and No Further Remedial Action Planned (CERCLIS NFRAP) Lists

CERCLIS contains data on potentially hazardous waste sites that have been reported to the US EPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the CERCLA. CERCLIS contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL. CERCLIS NFRAP are

archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of US EPA's knowledge, assessment at a site has been completed and that US EPA has determined no further steps will be taken to list this site on the NPL, unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the CERCLIS or CERCLIS NFRAP database.

RCRA Corrective Action Report (CORRACTS), Treatment, Storage and/or Disposal Facilities (TSDF), Large Quantity Generator (LQGs), and Small Quantity Generators (SQG)

RCRA program identifies and tracks hazardous wastes from the point of generation to the point of disposal. The RCRA database tracks those facilities that treat, store, and/or dispose of hazardous materials as defined by RCRA TSDF. The RCRA CORRACTS database identifies TSDF that have conducted, or are currently conducting, corrective action(s) as regulated under RCRA. The RCRA Generators database tracks large (LQG) and small quantity generators (SQG) of hazardous waste. Neither the Site nor properties within a 1-mile radius of the Site are listed on the RCRA CORRACTS database. Neither the Site nor properties within a ½-mile radius of the Site are listed on the RCRA TSDF database. Neither the Site nor properties within a 1/8-mile radius of the Site are listed on the RCRA LQG database.

There are two properties within a 1/4-mile radius of the Site listed on the RCRA SQG database. Of these, one is located cross-gradient with respect to the presumed groundwater flow direction of the Site, and the other is located upgradient and greater than a 1/8-mile radius of the Site. Due to their cross-gradient location or distance from the Site, these facilities are not considered to be a REC.

There is also an orphan site (site with inadequate information to be mapped) identified on the RCRA SQG database. This property, CVS Pharmacy #2718, is located approximately 275-feet north of the Site, and upgradient with respect to presumed groundwater flow direction of the Site, and does not appear on any database for spills or violations. Due to its distance and regulatory status, this RCRA SQG property is not considered to be a REC.

RCRA Conditionally Exempt Small Quantity Generators (RCRA-CESQG)

RCRA-CESQG is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) MN of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the RCRA-CESQG. These generators generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

The Site is not listed on the RCRA-CESQG database. There is one property within a 1/8-mile radius of the Site listed on the RCRA-CESQG database. This property is located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore is not considered to be a REC.

United States Institutional / Engineering Control Registries (US INST / ENG CONTROLS)

US INST CONTROLS is a listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on Site. Deed restrictions are generally required as part of the institutional controls. US ENG CONTROLS are a listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Neither the Site nor properties within ½-mile radius of the Site are listed on the US Institutional Controls database or the US Engineering Controls database.

Emergency Response Notification System (ERNS)
The ERNS database records and stores information on reported releases of oil and hazardous substances.

The Site is not listed on the ERNS database.

4.2 State and Tribal Environmental Records

This Section presents the database search report findings for State and Tribal environmental records.

State Hazardous Waste Sites (SHWS)
SHWS are referred to as the State Superfund Program and are sites in the cleanup program from inactive hazardous waste sites, including hazardous substance sites.

The Site is not listed on the SHWS database. There are three properties within a 1-mile radius of the Site listed on the SHWS database. These properties are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore are not considered to be a REC.

Vapor Intrusion Legacy Site (Vapor Reopened)
The Vapor Intrusion Legacy Site database identifies previously investigated and/or remediated sites that have been reopened by the NYSDEC due to concerns for vapor intrusion. "Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil. Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on this additional information, New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

The Site is not listed on the Vapor Reopened database. There is one property within a 1-mile radius of the Site listed on the Vapor Reopened database. This property is located downgradient with respect to the presumed groundwater flow direction of the Site and therefore is not considered to be a REC.

Solid Waste Facility (SWF) / State Landfill (SL)
SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

The Site is not listed on the SWF/SL database. There are four properties within a 1/2-mile radius of the Site listed on the SWF/SL database. These four properties are all located downgradient with respect to the presumed groundwater flow direction of the Site and therefore are not considered to be a REC.

Leaking Storage Tank Incident Reports (LTANKS)
These records contain an inventory of reported leaking storage tank incidents reported from April 1, 1986 through the most recent update. They can be either leaking underground storage tanks or leaking above-ground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

The Site is not listed on the LTANKS database. There are 54 properties within a 1/2-mile radius of the Site listed on the LTANKS database. Of these, 48 are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore are not considered to be a REC. The remaining properties are located upgradient with respect to the presumed groundwater flow direction of the Site and are further discussed below:

- A tank overfill was reported at 87-50 Kingston Place, approximately 500 feet to the north-northeast, and is listed in the LTANKS database as Spill Number 9614747 dated March 22, 1997. The NYSDEC entry for the spill indicates that five gallons of number four fuel-oil was released and recovered and that the spill was closed by the NYSDEC on March 25, 1997. This spill is also discussed in the NY Spills database review section of this report.
- A tank failure was reported at the Landron Residence, located at 172-32 Highland Avenue, approximately 825-feet to the north-northeast, and is listed in the LTANKS database as Spill Number 9801245, dated April 26, 1998. The NYSDEC entry for the spill indicates that one-gallon of number two fuel oil was released into the basement. The NYSDEC closed the spill on February 19, 2013.
- A tank test failure was reported at the Caycedo Residence, located at 86-18 Kingston Place, approximately 975 feet to the north-northwest, and is listed in the LTANKS database as Spill Number 0102236 dated May 29, 2001. The NYSDEC entry for the spill indicates that tank removal revealed soil contamination and that 40 tons of impacted soil were excavated for off-site disposal. The NYSDEC closed the spill on August 10, 2001.
- A tank overfill was reported at 86-15 Ava Place, approximately 1,000 feet north-northeast, and is listed in the LTANKS database as Spill Number 9508885 dated October 19, 1995. The NYSDEC entry for the spill indicates that 15 gallons of number six fuel oil was released into the backyard of the property and a clean-up crew responded. The NYSDEC closed the spill the same date that it was reported.
- A tank failure was reported at 84-49 168th Street, approximately 2,050 feet northwest, and is listed in the LTANKS database as Spill Number 0503160 dated June 15, 2005. The NYSDEC entry for the spill indicates that 2,000-gallons of fuel-oil was released from a tank, but contained in a basement with no drains or sewers. The fuel was removed, a sub-surface investigation was performed, and 55 drums of impacted soils were disposed. The NYSDEC closed the spill on January 31, 2007.
- A tank failure was reported at 84-12 169th Street, approximately 2,200 feet northwest, and is listed in the LTANKS database as Spill Number 8908694 dated December 1, 1989. The NYSDEC entry for the spill indicates that 275 gallons of fuel-oil was released during a fuel delivery, and the fuel oil was contained in the basement of the building. A clean-up crew responded to the spill, and the NYSDEC closed the spill on November 18, 2009.

Due to their distance, implementation of remediation or closed status with the NYSDEC, none of the properties on the LTANKS database, including the closest and upgradient properties described above, are considered to be a REC.

Historic Leaking Storage Tank Incident Reports (HIST LTANKS)

These records contain an inventory of reported leaking storage tank incidents reported from April 1, 1986 through the end of 2002. The causes of the incidents are tank test failures, tank failures, or tank overfills. In 2002, the NYSDEC stopped providing updated on this database, and, instead, reported leaking tank incidents on the LTANK database.

Neither the Site nor properties within a 1/8-mile radius of the Site are listed on HIST LTANKS database.

Underground Storage Tank (UST)

The UST database contains registered USTs from facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCA). The data comes from the NYSDEC Petroleum Bulk Storage (PBS) database.

The Site is not listed on the UST database. There are 19 properties within a 1/8-mile radius of the Site listed on the UST database. Of these, 15 are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore are not considered to be a REC. Three of the remaining properties located upgradient with respect to the presumed

groundwater flow direction of the Site and are not listed on any database for spills or violations, and due to their regulatory status, these upgradient properties are not considered to be a REC.

The remaining upgradient property with respect to the presumed groundwater flow direction of the Site, 87-50 Kingston Place, located approximately 575 feet to the north-northeast, is identified on the NY Spills database as Spill Number 9410692 dated November 10, 1994. The NYSDEC entry for the spill indicates that due to equipment failure, five-gallons of fuel oil was released into a containment pit. A clean-up crew responded to the spill, and the NYSDEC closed the spill on the same date it was reported. Due to its distance, implementation of remediation, and closed status with the NYSDEC, this spill associated with a UST is not considered to be a REC. This spill is also discussed in the NY Spills database review section of this report.

Major Oil Storage Facility Underground Storage Tanks (MOSF UST)
The MOSF UST database contains registered facilities that have petroleum storage capacities in excess of 400,000 gallons. The data is derived from the NYSDEC.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the MOSF UST database.

Above-ground Storage Tanks (ASTs)
The AST database contains registered ASTs from facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. The data is derived from the NYSDEC.

The Site is not listed on the AST database. There are eight properties within a 1/8-mile radius of the Site listed on the AST database. Of these, seven are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore are not considered to be a REC. The remaining property located upgradient with respect to the presumed groundwater flow direction of the Site is not listed on any database for spills or violations. Due to its regulatory status, this upgradient property is not considered to be a REC.

Major Oil Storage Facility Above-ground Storage Tanks (MOSF AST)
The MOSF AST database contains registered facilities that have petroleum storage capacities in excess of 400,000 gallons.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the MOSF AST database.

Chemical Bulk Storage (CBS) Database
The CBS database contains facilities that store hazardous substances listed in 6NYCRR Part 597 in above-ground storage tanks with capacities of 185 gallons or greater or USTs of any size. The data is derived from the NYSDEC.

Neither the Site nor properties within a 1/4-mile radius of the Site are listed on the CBS database.

State Institutional/Engineering Control Registries (INST/ENG CONTROLS)
The INST/ENG CONTROLS is a database of properties that have institutional or engineering controls in place. The data is derived from the NYSDEC.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the Institutional Controls database or the US Engineering Controls database.

Voluntary Cleanup Agreements (VCP)
The VCP database lists properties that were investigated and/or remediated under the State's Voluntary Cleanup Program (VCP). The VCP was a voluntary remedial program established to address the environmental, legal, and financial barriers that hinder the redevelopment and reuse of contaminated properties. The VCP was developed to enhance private sector cleanup of contaminated properties by allowing parties to remediate properties using private rather than public funds and to reduce the need for development of undeveloped parcels ("greenfields").

Neither the Site nor properties within a ½-mile radius of the Site are listed on the VCP database.

Environmental Restoration Program (ERP) Listing and Brownfield (BROWNFIELDS) Site List
The ERP and BROWNFIELD databases list properties in New York State's ERP and Brownfield programs. Under the Environmental Restorage Program, New York State provides grants to municipalities to reimburse up to 90 percent of the eligible on-site costs and 100 percent of the off-site costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential, or public uses. A brownfield is any real estate property where redevelopment or re-use may be complicated by the present or potential presence of hazardous waste, petroleum, pollutants, or contamination. The data for this database is derived from the NYSDEC.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the ERP or BROWNFIELDS database.

4.3 Additional Environmental Records and Other Ascertainable / EDR Proprietary Records

This section presents the findings of the database search report for additional environmental records and other ascertainable/EDR proprietary records.

Local Brownfield Lists (US BROWNFIELDS)
This database is a listing of brownfields properties addressed by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the US BROWNFIELDS database.

Local Lists of Landfill/Solid Waste Disposal Sites: Open Dump Inventory (ODI), Registered Waste Tire Storage & Facility List (SWTIRE), and Solid Waste Registered Recycling Facility List (SWRCY)
This database is a listing of properties listed on the following: the Open Dump Inventory (ODI), Solid Waste Tire Storage & Facility List (SWTIRE), and Solid Waste Registered Registered Recycling Facility List (SWRCY).

Neither the Site nor properties within a ½-mile radius of the Site are listed on the ODI, SWTIRE or SWRCY database.

Local Lists of Hazardous Waste Contaminated Sites: US Clandestine Drug Labs and Delisted Registry Sites
This database is a listing of properties identified on the Clandestine Drug Labs (CDL) and/or the Delisted Registry Sites (DEL SHWS) listings. The CDL listing contains addresses of some locations where law enforcement agencies reported chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. The DEL SHWS listing is a database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

The Site is not listed on the CDL database. Neither the Site nor properties within a ½-mile radius of the Site are listed on the DEL SHWS database.

Local Land Records (LIENS 2 and LUCIS)
This database includes properties on the CERCLA Lien Information and/or Land Use Control Information System (LUCIS) listings. A federal CERCLA lien can exist by operation of law at any site or property at which US EPA has spent Superfund monies. LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

The Site is not listed on the LIENS 2 database, and neither the Site nor properties within a ½-mile radius of the Site are listed on the LUCIS database.

Hazardous Materials Incident Reporting System (HMIRS)
HMIRS contains hazardous material spill incidents reported to the Department of Transportation (DOT).

The Site is not listed on the HMIRS database.

New York State Spills (NY Spills)
The NY Spills database is a listing of spills reported to the NYSDEC, as required by Article 12 of the Navigation Law, 6 NYCRR. This database includes spills active as of April 1, 1986 as well as spills occurring since this date.

The Site is not listed on the NY SPILLS database. There are nine properties within a 1/8-mile radius of the Site listed on the NY SPILLS database. Seven of these properties are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and are not located immediately adjacent to the Site and therefore are not considered to be a REC. The remaining properties within a 1/8-mile radius of the Site listed on the NY SPILLS database are further discussed below:

- Spill number 9614747 was reported approximately 500 feet north-northeast of the Site at 87-50 Kingston Place on March 22, 1997. According to the NYSDEC entry for the spill, five-gallons of number-four fuel-oil was released and recovered and the the spill was closed by the NYSDEC on March 25, 1997. This spill is also discussed in the LTANKS database review section of this report.
- Spill number 9410692 was reported on November 10, 1994, also at 87-50 Kingston Place. According to the NYSDEC entry for the spill, five-gallons of fuel-oil was released into a containment pit due to equipment failure. A clean-up crew responded to the spill, and the NYSDEC closed the spill on the same date it was reported. This spill is also discussed in the UST database review section of this report.

Due to its distance, implementation of remediation, or closed status with the NYSDEC, the upgradient property on the NY SPILLS database is not considered to be a REC.

RCRA Non Generators (RCRA-NonGen / NLR)
RCRA-NonGen is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Action (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generated, transported, stored, treated, and/or disposed of hazardous waste as defined by RCRA. Non-Generators do not presently generate hazardous waste.

The Site is not listed on the RCRA-NonGen / NLR database. There are two facilities within a 1/8-mile radius of the Site listed on the RCRA-NonGen / NLR database. Of these, one is located cross-gradient with respect to the presumed groundwater flow direction of the Site and therefore is not considered to be a REC. The upgradient RCRA-NonGen / NLR facility is not located adjacent to or within the immediate vicinity of the Site and does not appear on any regulatory database for spills or violations. Due its distance and/or regulatory status, this upgradient facility is not considered to be a REC.

Toxic Release Inventory System (TRIS)
This database is a listing of facilities which release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. Information for the TRIS database is provided and maintained by the US EPA.

The Site is not listed on the TRIS database.

Toxic Substances Control Act (TSCA)
This database is a listing of manufacturers and importers of chemical substances on the TSCA chemical substances inventory lists and includes data on production volumes of these substances by plant location.

The Site is not listed on the TSCA database.

PCB Activity Database System (PADS)
This database identifies generators, transporters, commercial storers and/or brokers of PCBs who are required to notify the US EPA of such activities.

The Site is not listed on the PADS database.

Facility Index System/Facility Registry System (FINDS)
The FINDS database contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: Permit Compliance System (PCS), Aerometric Information Retrieval System (AIRS), Enforcement Docket (DOCKET) used to manage and track information on civil judicial enforcement cases for environmental statutes, Federal Underground Injection Control (FURS), Criminal Docket (C-DOCKET) used to track criminal enforcement actions for environmental statues, Federal Facilities Information System (FFIS), State Environmental Laws and Statutes (STATE), and PCB Activity Data System (PADS).

The Site is not listed on the FINDS database.

RCRA Administrative Action Tracking System (RAATS)
The RAATS database contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the US EPA. For administrative actions after September 30, 1995, data entry in the RAATS database was discontinued due to decrease in agency resources.

The Site is not listed on the RAATS database.

Hazardous Substance Waste Disposal Site (HSWDS) Inventory
The HWDS database is a listing of known or suspected hazardous substance waste disposal sites and includes sites that were delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that the US EPA had prepared a Preliminary Assessment (PA) or Site Investigation (SI) report.

Neither the Site nor properties within a ½-mile radius of the Site are listed on the HSWDS database.

Facility and Manifest Data (MANIFEST)
This database is a listing of facilities that generate a manifest. A manifest is a document that lists and tracks hazardous waste from the generator through transporters to a Treatment, Storage, Disposal (TSD) facility. The information for this database is provided by the NYSDEC.

The Site is not listed on the NY MANIFEST database. There are three properties within a 1/8-mile radius of the Site listed on the NY MANIFEST database. Of these, two are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and are not located immediately adjacent to the Site and therefore are not considered to be a REC. The upgradient property is not located adjacent to or within the immediate vicinity of the Site and does not appear on any regulatory database for spills or violations. Due its distance and regulatory status, this upgradient property is not considered to be a REC.

New York Drycleaners (NY Drycleaners)
The NY Drycleaners is a listing of registered drycleaners. The data is derived from the NYSDEC.

The Site is not listed on the NY Drycleaner database. There are three facilities within a 1/4-mile radius of the Site listed on the NY Drycleaners database. These properties are located downgradient or cross-gradient with respect to presumed groundwater flow direction of the Site and are not located adjacent to or within the immediate vicinity of the Site and therefore are not considered to be a REC.

State Pollutant Discharge Elimination System (SPDES)

New York State has a program approved by the US EPA for the control of waste water and stormwater discharges in accordance with the Clean Water Act and is referred to as the State Pollutant Discharge Elimination System (SPDES). This program broader in scope than required by the US EPA in that SPDES controls point source discharges to groundwaters as well as surface waters. This database is listing of SPDES properties.

The Site is not listed on the SPDES database.

E DESIGNATION

The E DESIGNATION database is a listing of properties in New York City that have a "E" zoning designation. An "E" designation is a zoning map designation notifying the potential for hazardous material contamination, noise, or air quality impacts for a particular tax lot. The information for this database is derived from the New York City Department of Environmental Planning.

The Site is listed on the E DESIGNATION database for Underground Gasoline Storage Tanks and Window Wall Attenuation and Alternate Ventilation. As per the New York City Planning Commission City Environmental Quality Review (CEQR), underground gasoline storage tanks are included in the hazardous materials contamination category. The listing of the Site on the E DESIGNATION database relates to a re-zoning action by the New York City Department of Planning for the general surrounding area (CEQR No. 05DCP081Q) as opposed to an identified concern for subsurface conditions at the Site itself. For this reason, in conjunction with its known past and current use, the listing of the Site on the E DESIGNATION database by itself is not considered to be a REC. However, New York City will require an evaluation of subsurface conditions if a change in the current use of the Site will occur.

There are 15 properties within a 1/8-mile radius of the Site listed on the E DESIGNATION database. Nine of these properties are located downgradient or cross-gradient with respect to the presumed groundwater flow direction of the Site and are not located adjacent to or in the immediate vicinity of the Site and therefore are not considered to be a REC. Four of the upgradient properties are listed for items are not located immediately adjacent to the Site and therefore are not considered to be a REC. The remaining properties are discussed further below:

- Block 9827 Lot 31, located immediately north of the Site and upgradient with respect to the presumed groundwater flow direction of the Site, is listed on the E DESIGNATION database for Underground Gasoline Storage Tanks and Window Wall Attenuation. As per the New York City Planning Commission City Environmental Quality Review (CEQR), underground gasoline storage tanks are included in the hazardous materials contamination category. The listing of this adjacent property on the E DESIGNATION database for hazardous materials is not considered to be a REC for the same reason as the Site's listing on this database.
- Block 9827 Lot 37, located immediately east of the Site and cross-gradient with respect to presumed groundwater flow direction of the Site, is listed on the E DESIGNATION database for Underground Gasoline Storage Tanks and Window Wall Attenuation. As per the New York City Planning Commission City Environmental Quality Review (CEQR), underground gasoline storage tanks are included in the hazardous materials contamination category. The listing of this adjacent property on the E DESIGNATION database for hazardous materials is not considered to be a REC for the same reason as the Site's listing on this database.

Restrictive Declaration (RES DECL)

The RES DECL database lists properties with a restrictive declaration. A restrictive declaration is a covenant running with the land that binds the present and future owners of the property. As a condition of special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specialized conditions on the future use and development of the property. Certain restrictive declarations are indicated by the letter "D" on zone maps. The data for this database is derived from the New York City Department of Planning.

Neither the Site nor properties within a 1/8-mile radius of the Site are listed on the RES DECL database.

Manufactured Gas Plants

The Manufactured Gas Plants database includes records of coal gas plants compiled by EDR's researchers. Manufactured gas plants were used in the United States from the 1800s to the 1950s to produce a gas that was distributed and used as a fuel. The plants typically utilized coal to produce gas and generated a significant amount of waste. Many of the waste byproducts from manufactured gas plants included coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds that are potentially hazardous to human health and the environment. The waste byproducts from manufactured gas plants were often disposed of at the facility and acted as a source of soil and groundwater contamination for the surrounding area.

The Site is not listed on EDR's Manufactured Gas Plant database. There is one Manufactured Gas Plant within a 1-mile radius of the Site. The Jamaica Gas and Light facility, located at the intersection of Beaver Road and 158th Street is approximately 4,700-feet to the southwest and downgradient with respect to presumed groundwater flow direction of the Site. Due its distance, this Manufactured Gas Plant site is not considered to be a REC.

EDR Historical Auto Stations and Cleaners (US Hist Auto Stat and US Hist Cleaners)

The EDR Historical Auto Stations and Historical Cleaners databases are listings of potential gasoline filling stations, auto repair stations, dry cleaners, laundries, and Laundromats based on the findings of EDR researchers.

The Site is not listed on the EDR Historical Auto Stations database. There is one property within a 1/8-mile radius of the Site listed on the EDR Historical Auto Stations database. This upgradient property is not located adjacent to or in the immediate vicinity of the Site, is not listed on any regulatory database for spills or violations, and therefore is not considered to be a REC.

The Site is not listed on the EDR Historical Cleaners database. There is one property within a 1/8-mile radius of the Site listed on the EDR Historical Cleaners database. This upgradient property is not located adjacent to or in the immediate vicinity of the Site, is not listed on any regulatory database for spills or violations, and therefore is not considered to be a REC.

4.4 Historical Use Information

The Site history was researched by a review of information from the following sources:

- Sanborn Fire Insurance maps
- City Directories
- Historical aerial photographs
- Other Historical Sources

4.4.1 Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps were provided by EDR for the years 1901, 1912, 1926, 1951, 1981, 1982, 1986, 1988, 1989, 1990 through 1993, 1995, 1996, 1999, and 2001 through 2006. The following table describes characteristics of the Site and adjoining properties and identifies notable environmental concerns in the vicinity of the Site for each individual year of Sanborn Fire Insurance map coverage. Copies of the Sanborn Fire Insurance Maps are included in Appendix D.

Summary

Date(s)	Site Comments	Surrounding Area Comments
1901	A residential dwelling is shown on the the Site.	The adjacent properties to the north, east, and west are undeveloped. The adjacent property to the south is shown with a residential dwelling. The general surrounding area consists of undeveloped properties or residential dwellings.

Date(s)	Site Comments	Surrounding Area Comments
1912	There are no significant changes to the use of the Site since the previous Sanborn map year.	There are no significant changes in the use of adjacent properties since the previous Sanborn map year.
1926	A small separate structure, presumably a garage, is shown behind (to the east) of the residential dwelling. No other significant changes in the use of the Site are shown since the previous Sanborn map year.	The adjacent property property to the north is now occupied by a residential dwelling. The adjacent property to the east is shown as occupied by two residential dwellings. The adjacent property to the west, across 171st Street, is occupied by a residential dwelling. No other significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1951	Another separate structure is shown behind the residential dwelling and is indicated to be a parking garage. No other significant changes in the use of the Site are shown since the previous Sanborn map year.	A car wash is shown immediately to the northeast and fronting Hillside Avenue. No other significant changes in the use of adjacent properties are indicated since the previous Sanborn map year.
1981	No significant changes in the use of the Site are shown since the previous Sanborn map year.	The current residential apartment building now occupies the south-adjacent property. A 2-story building with a dry cleaner and offices is present on the adjacent property to the northeast. No other significant changes in the use of adjacent properties are indicated since the previous Sanborn map year.
1982	No significant changes in the use of the Site are shown since the previous Sanborn map year.	One of the residential dwelling on the east adjacent property is no longer present. No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1986	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1988	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1989	No significant changes in the use of the Site are shown since the previous Sanborn map year.	The remaining residential dwelling on the east-adjacent property is no longer present, and this adjacent property is now vacant. No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1990	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1991	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1992	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1993	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1995	No significant changes in the use of the Site are shown since the previous Sanborn map year.	A dental office now occupies the north-adjacent property. No other significant changes in the use of adjacent properties are shown since the previous Sanborn map year.

Date(s)	Site Comments	Surrounding Area Comments
1996	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
1999	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2001	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2002	The residential dwelling is no longer present. The pair of small structures behind the residential dwelling are shown on the Site.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2003	The Site is now vacant.	The 2-story building on adjacent property to the north is now occupied by a dry cleaner and car wash, with offices on the second floor. No other significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2004	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2005	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.
2006	No significant changes in the use of the Site are shown since the previous Sanborn map year.	No significant changes in the use of adjacent properties are shown since the previous Sanborn map year.

As indicated by the previous table, the past residential use of the Site and commercial or residential use of adjacent properties did not exhibit any environmental concerns that would represent a REC. The dry cleaner shown on the northeast adjacent property from 1981 to 2006 is not listed on any regulatory databases for generation of hazardous waste. Since hazardous waste regulations were in effect during most of this time, this dry cleaner likely performed dry cleaning at another location. It is also possible that this dry cleaner was misidentified and was actually part of the car wash, which is the current occupant of this adjacent property.

4.4.2 City Directory

EDR's City Directory Abstract is a screening report designed to assist the environmental professional in evaluating potential liability on a target property resulting from past activities. The Site is listed in EDR's historical city directory since 1934. The occupants of the Site address include only private residences and are not considered to be a REC. Similarly, the occupants of the addresses for adjoining properties consist mainly of private residents and are not considered to be a REC. A copy of the City Directory Abstract is included in Appendix E.

As previously discussed, occupants of the Site consisted of only private residences. Similarly, occupants of adjacent properties generally consisted of private residences or commercial tenants. The past residential use of the Site and adjacent properties is not considered to be a REC.

4.4.3 Other Historical Information

Historical Aerial Photographs

Available historical aerial photographs dated 1924, 1946, 1954, 1966, 1975, 1984, 1994, 2006, 2009, and 2011 from EDR were reviewed for this Environmental Site Assessment. Copies of selected historical aerial photographs are included in Appendix F of this report. A summary of the historical aerial photographs is provided below.

Summary

Date(s)	Site Comments	Surrounding Area Comments
1924	The Site appears developed with a small building.	The adjacent properties appear developed with buildings except for the property to the northeast, which is vacant.
1946	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
1954	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
1966	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
1975	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
1984	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
1994	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
2006	The Site appears developed with a small building.	The adjacent properties appear developed with buildings.
2009	The Site appears to be vacant.	The adjacent properties appear developed with buildings.
2011	The Site appears to be vacant.	The adjacent properties appear developed with buildings.

Historical Topographic Maps

Historical topographic maps of moderately to densely populated urban areas provide little or no useful information regarding the historical use of properties located within these areas. Rather, comprehensive historical use information for the Site and surrounding area was obtained and reviewed by Athenica as part of this Phase I ESA. These information sources include, at the minimum, Sanborn Fire Insurance maps, city directories and historical aerial photographs.

As indicated in the previous table, the Site appears to have been developed with small building and the adjacent properties appear to have been developed with either small buildings. The precise use of the Site and adjacent properties could not be determined from the aerial photographs.

Other Historical Sources

According to the New York City Department of Finance's Automated City Register Information System (ACRIS), there are records of deeds at the Site from July 14, 1992 to August 8, 2000. The deeds include the dates and the names of the parties involved in the transactions, with no record of building usage at the Site. The New York City Department of Buildings on-line information does not include any records of occupancy for the Site.

4.5 Prior Reports and Agency Review Results

No prior environmental report was provided for review.

4.5.1 Prior Reports Review

4.5.2 Agency Review Results

As no file reviews of facilities that were identified in the database search were deemed necessary for this ESA due to the completeness of the database search and the historical research, Athenica did not perform any such review.

File Search of the Fire Department of New York City was not conducted due to time constraints of this Phase I ESA.

4.6 Physical Setting Source

4.6.1 Topography

According to the United States Geological Survey (USGS) Topographic Quadrangle for Queens, NY, the elevation of the Site is approximately 80 feet above mean sea level (amsl).

4.6.2 Soils

According to the U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS), which is included in the EDR GeoCheck Report, the soils in the area of the Site are classified as Urban Land.

4.6.3 Geology

According to the United States Geological Survey (USGS) Hydrogologic Investigations Atlas: Hydrogologic Framework of Long Island, New York (1989), the geology of Queens County (the borough of Queens) is characterized by several geological units which are described in a vertical sequence as follows:

The near surface geology consists of the Upper Glacial Aquifer that is present throughout the entire County in varying thickness. The thickness ranges between approximately 20 feet and 220 feet with the thicker portions coinciding with areas of higher surface elevation. It is comprised of till composed of clay, sand, gravel and boulders.

In the southern half of the County, the Upper Glacial Aquifer is underlaid by the Gardiners Clay unit which varies in thickness between approximately 20 feet and 80 feet and is comprised of clay, silt and a few layers of sand and contains marine shells and glauconite.

Jameco Aquifer is present only below Gardiners Clay unit, varies in thickness between 0 feet and 60 feet and is comprised of fine to very coarse sand and gravel to large-pebble size and a few layers of clay and silt.

Magothy Aquifer is located in part directly below each of the above units. Its thickness increases as its bottom dips in the southerly direction from approximately 0 feet near the northeastern end of the County to approximately 500 feet in the southeastern end of the County. Its thickness and area decrease in the westerly direction towards the western portion of the county. It is comprised of fine to medium sand that is clayey in part, interbedded with lenses of and layers of coarse sand and sandy and solid clay.

The Raritan Confining Unit is present throughout the entire County. It is a southerly dipping layer that is located immediately below the Upper Glacial Aquifer in the northern portion of the County. Its thickness varies between approximately 100 feet and 150 feet. It is comprised of solid and silty clay with a few lenses and layers of sand.
Located entirely below the Raritan Confining Unit is Lloyd Aquifer. It is a southerly dipping layer with its thickness increasing from approximately 80 feet in the very northern portion of the County to approximately 500 feet in the very southern portion of the County. Its thickness and area decrease in the westerly direction towards the western portion of the county. It is comprised of fine to coarse sand, and gravel that is commonly with clayey matrix and some lenses and layers of solid and silty clay

The top of the underlying bedrock dips in a general southerly direction with its depth below the surface ranging throughout the County between approximately 150 feet in the northeast, 1,300 feet in the southeast, 30 feet in the northwest and 900 feet in the southwest. It is comprised of crystalline metamorphic and igneous rocks consisting of muscovite-biotite schist, gneiss and granite.

4.6.4 Hydrology

The movement and direction of groundwater flow is influenced by many factors including, but not limited to, the aquifer's hydraulic characteristics, surface and bedrock topography, the presence of surface water bodies and the influence of pumping wells. Preliminary estimates of groundwater flow direction usually consider surface topography and the presence of nearby surface water bodies. Based on topography, the inferred groundwater flow direction for the Site is to the South towards the Jamaica Bay, located approximately 5.25 miles to the South of the Site.

Local groundwater depth and flow direction can be influenced by additional factors (e.g., underground structures, seasonal fluctuations, soil and bedrock geology, and production wells), which are beyond the scope of this investigation.

4.6.5 Flood Zones and Wetlands

A regulatory agency database obtained from EDR was reviewed and included available Flood Insurance Rate Maps (FIRMS) obtained from the Federal Emergency Management Agency (FEMA). The Site lies outside the 100-year and 500-year flood zone. The National and State wetland inventories do not indicate any wetlands on the Site.

5.0 SITE RECONNAISSANCE

Athenica's representative Jeff Strykowski and John Danko conducted the Site reconnaissance on October 9th, 2013. The Site reconnaissance consisted of observing conditions throughout accessible areas of the Site and around the perimeter of the Site. Photographs documenting conditions of the Site and surrounding area are included in Appendix B.

5.1 Interior & Exterior Description

The Site consists of a 5,926 square-foot unpaved vacant lot. There are no structures on the Site.

The north-adjacent property consists of a 2-story office building occupied by medical and dental offices. The south-adjacent property consists of a 7-story apartment building. The east-adjacent property consists of a 1-story car wash. The west-adjacent property, across 171st Street, consists of two 2-story residential dwellings.

5.2 Methodology and Limiting Conditions

The Site reconnaissance consisted of visual and/or physical observations of the Site; adjoining sites as viewed from the Site; and, the surrounding area based on visual observations made during the trip to and from the Site. Unimproved portions of the Site (if any) were observed along the perimeter and in a general grid pattern in safely accessible areas.

5.3 Hazardous Substance Use/Storage

Athenica did not find any evidence of hazardous substance use or storage at the Site.

5.4 Underground and Aboveground Storage Tanks

Athenica observed no evidence of USTs or ASTs at the Site.

5.5 Other Petroleum Products

Athenica did not observe any other petroleum based chemicals at the Site at the time of the Site inspection.

5.6 Polychlorinated Biphenyls (PCBs)

PCBs are toxic coolants or lubricating oils used in some electrical transformers, light ballasts, electrical panels or other similar equipment. Athenica did not observe any such materials on the Site.

5.7 Waste Generation, Storage and Disposal

The Site is vacant and therefore no refuse is generated by the Site.

5.8 Septic Systems

Athenica did not observe evidence of any on-Site septic system at the Site.

5.9 Storm Water Management/Surface Areas

Athenica did not observe any evidence of surface water, surface impoundments or retention ponds at the Site.

5.10 Wells

Athenica did not observe evidence of production wells or monitoring wells at the Site or in the vicinity of the Site.

6.0 INTERVIEWS

6.1 Interview Summary

Athenica interviewed the current owner, Alan Esses. Mr. Esses was not aware of any environmental cleanup liens or activity use limitations in place at the Site or any RECs in connection with the Site.

7.0 ADDITIONAL SERVICES

7.1 Wetlands

Athenica did not observe any indicators of wetlands at the Site or on adjacent properties. According to the EDR report, neither National Wetland Inventory nor State Wetlands exist at the Site.

7.2 Suspect Asbestos-Containing Material (ACM)

Athenica conducted a limited asbestos survey of the Site. The Site consists of a vacant lot and therefore no suspect asbestos containing materials (ACMs) were observed..

7.3 Radon

The USEPA defines radon as a colorless, odorless, radioactive gas that comes from the natural decay of uranium that is found in nearly all soils. It typically moves through the ground to the air above and into homes and other buildings through cracks and openings in the foundation.

The NYSDOH maintains a database of radon test results on a local and county level. The average radon level for this area of Queens in living areas and basements are < 0.620 PicoCuries per liter (pCi/L) and 0.970 pCi/L, respectively. These values are well below the USEPA "action guideline" of 4.00 pCi/L in residential dwellings. The USEPA has not designated a recommended action level for radon in buildings. Athenica concludes that radon gas does not represent an environmental concern for the Site, and no further investigation is recommended. Athenica did not perform testing for radon gas at the Site as a part of this assessment.

7.4 Lead Based Paint

Athenica conducted a visual survey to identify any damage (i.e., peeling, flaking, and blistering) to painted surfaces within the property. There is currently no structure on the Site, and therefore any lead based paint was not observed.

7.5 Mold Observation

Athenica provided a limited visual observation at the time of the Phase I ESA walk through for the presence of mold for the Site.
The Site is a vacant lot; consequently, there were no buildings areas where mold or conditions promoting mold growth would be present.

8.0 FINDINGS AND OPINIONS

The following summarizes known or suspected environmental conditions in connection with the Site based on information collected during the ESA. For each condition, Athenica provides an opinion of the impact on the Site based on an evaluation of the results of record reviews, site reconnaissance and interviews as discussed in this report. Athenica also provides a conclusion and rationale regarding whether or not an environmental condition is a recognized environmental condition.

No evidence of suspected or known RECs were revealed during the completion of this Phase I Environmental Site Assessment. The Site has an "E" zoning designation for hazardous materials due to a re-zoning action of the surrounding area; consequently, a Phase II Site Assessment will need to be performed in accordance with requirements of New York City's "E" designation program if changes in the current Site use will occur.

9.0 CONCLUSIONS

Athenica Environmental Services has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of 87-67 171st Street in the Borough of Queens, New York (Block 9827, Lot 25). Any exceptions to, or deletions from, this practice are described in Section 10 of this report. This assessment has revealed no evidence of RECs in connection with the Site.

Based on the aforementioned findings of the Phase I ESA, Athenica makes the following conclusion:

- If changes in the current use of the Site will occur, a Phase II Environmental Site Assessment will need to be performed in accordance with the requirements of the New York City Office of Environmental Remediation (OER) under its "E" Designation Program.

10.0 DEVIATIONS AND DATA GAPS

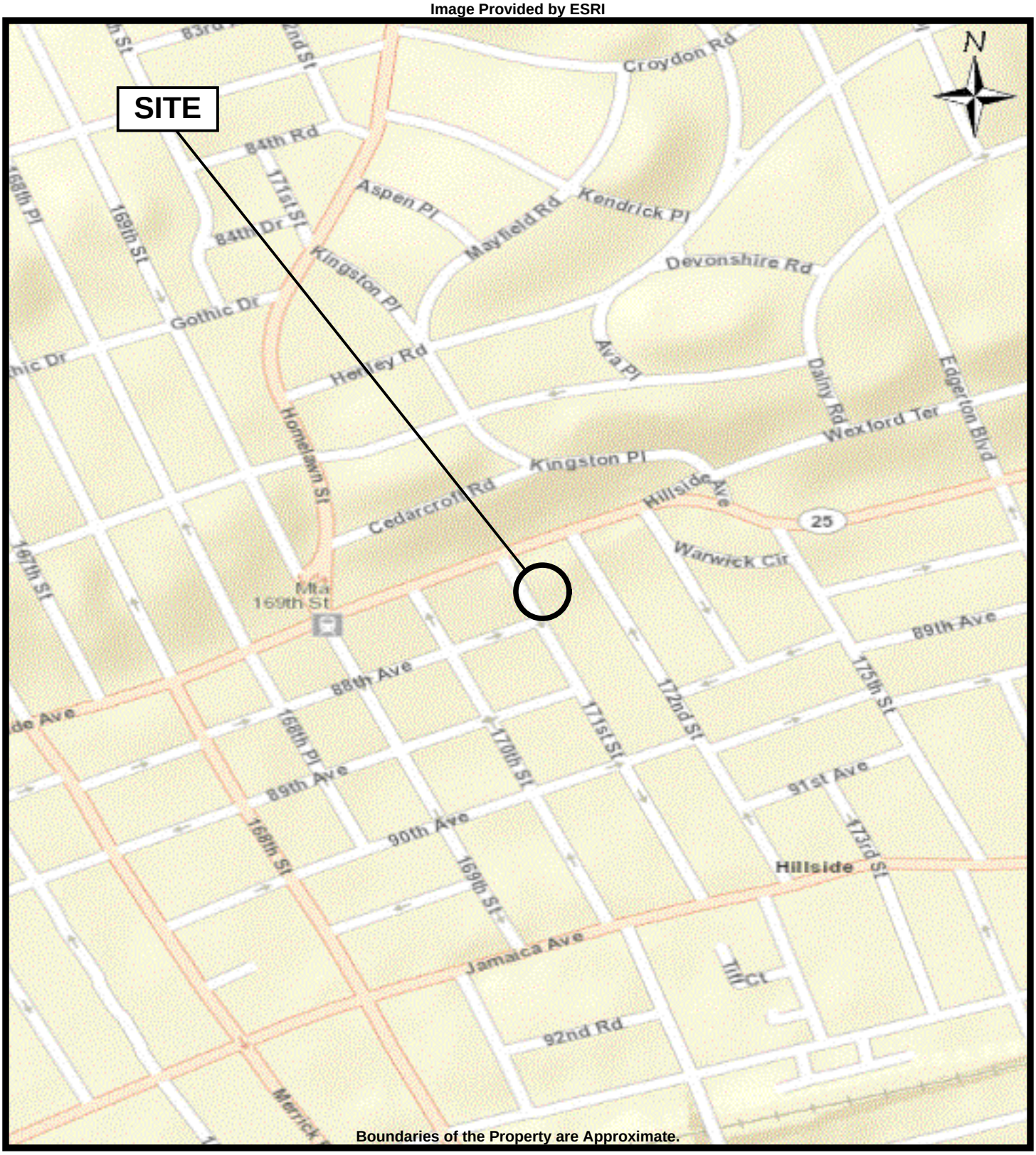
The following data gaps apply to the performance of this Phase I ESA:

- File searches of the NYSDEC and USEPA records requires a written Freedom of Information Act (FOIA) request to obtain access to screen for the presence of, and gain access to, environmental records. Such information was deemed not to be reasonably ascertainable within the time constraints of this Phase I ESA.
- File Search of the Fire Department of New York City was not conducted due to time constraints of this Phase I ESA.
- A vapor intrusion survey was not part of this Phase I ESA.

Appendix A

Site Location Map

Image Provided by ESRI



Boundaries of the Property are Approximate.

ATHENICA ENVIRONMENTAL SERVICES, INC.
Environmental Consultants

SITE LOCATION MAP
87-67 171st St.
87-67 171st Street
Queens, NY 11432

PREPARED FOR: Vikram Construction, Inc.
PROJ. MGR: Spiro Dongaris **DATE: 10/14/2013**
DRAWN BY: William Silveri **PROJ. #: 13-1405**

Appendix B

Site Photographs

View of the Site as seen from 171st Street.

View of the Site from the rear portion of the property.

View of the north adjacent property as seen from 171st Street.

View of the east-adjacent property as seen from the southwest corner of Hillside Avenue and 172nd Street.

View of the rear portion of the car wash, part of the east-adjacent property, from 172nd Street.

View of the west-adjacent properties as seen from 171st Street.

View of the south-adjacent property as seen from 171st Street.

A former gasoline-filling station has been replaced by an automobile dealership at the southeast corner of Hillside Avenue and 172nd Street.

ATTACHMENT B
SOIL BORING LOGS

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B1 Boring Log

Location: North east corner of the Site		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: VCI1401	Address: 87-67 171st Street, Queens, NY	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: DK Drilling	Method: Macro core Geoprobe LT54	10'		Well Specifications
Date Started: 5/14/2014	Date Completed: 5/14/2014			None
Completion Depth: 12 feet	Field Technician K Waters			

B1 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	0 to 2	24		0.0	24" - Dark silty sand, top soil. No odor. **Soil Sample retained B1(0-2).*
	2 to 4	24		0.0	24" - Medium brown sand. No odor.
	4 to 6	24		0.0	24" - Medium brown sand. No odor.
	6 to 8	24		0.0	24" - Medium brown sand. No odor.
	8 to 10	24		0.0	*24" - Medium brown sand. No odor.*
	10 to 12	24		0.0	24" - Medium brown sand. No odor. **Soil Sample retained B1(10-12).*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B2 Boring Log

Location: Northwest side of the Site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: VCI1401	Address: 87-67 171st Street, Queens, NY	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: DK Drilling	Method: Macro core Geoprobe LT54	10'		Well Specifications
Date Started: 5/14/2014	Date Completed: 5/14/2014			None
Completion Depth: 12 feet	Field Technician K Waters			

B3 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	0 to 2	24		0.0	24" - Dark sand with some stones. No odor. **Soil Sample retained B2(0-2).*
	2 to 4	24		0.0	24" - Brown medium sand with large stones. No odor.
	4 to 6	24		0.0	24" - Tan medium sand. No odor.
	6 to 8	24		0.0	24" - Tan Medium sand. No odor.
	8 to 10	24		0.0	*24" - Tan medium sand. No odor.*
	10 to 12	24		0.0	24" - Tan medium sand. No odor. **Soil Sample retained B2(10-12).*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B3 Boring Log

Location: Center of the Site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: VCI1401	Address: 87-67 171st Street, Queens, NY	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: DK Drilling	Method: Macro core Geoprobe LT54	10'		Well Specifications
Date Started: 5/14/2014	Date Completed: 5/14/2014			None
Completion Depth: 12 feet	Field Technician K Waters			

B3 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 2	24		0.0	24" - Dark sand with some stone, top soil. No odor. **Soil Sample retained B3(0-2).*
	2 to 4	24		0.0	24" - Dark sand with some stone, top soil. No odor.
	4 to 6	24		0.0	24" - Tan sand. No odor.
	6 to 8	24		0.0	24" - Tan sand. No odor.
	8 to 10	24		0.0	*24" - Tan sand. No odor.*
	10 to 12	24		0.0	24" - Tan sand. No odor. **Soil Sample retained B3 (10-12).Soil Duplicate 1*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B4 Boring Log

Location: South side of the Site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: VCI1401	Address: 87-67 171st Street, Queens, NY	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: DK Drilling	Method: Macro core Geoprobe LT54	10'		Well Specifications
Date Started: 5/14/2014	Date Completed: 5/14/2014			None
Completion Depth: 12 feet	Field Technician K Waters			

B4 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0 to 2	24		0.0	24" - Dark silty sand with no gravel. No odor. **Soil Sample retained B4(0-2).*
	2 to 4	24		0.0	24" - Brown sandy loam, no gravel and wet. No odor.
	4 to 6	24		0.0	24" - Medium tan sand. No odor.
	6 to 8	24		0.0	24" - Medium tan sand. No odor.
	8 to 10	24		0.0	*24" - Medium tan sand. No odor.*
	10 to 12	24		0.0	24" - Medium tan sand. No odor. **Soil Sample retained B4 (10-12.*

Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

B5 Boring Log

Location: South east side of the Site.		Depth to Water (ft. from grade.)		Site Elevation Datum
Site Name: VCI1401	Address: 87-67 171st Street, Queens, NY	Date	DTW	Ground Elevation
		Groundwater depth		
Drilling Company: DK Drilling	Method: Macro core Geoprobe LT54	10'		Well Specifications
Date Started: 5/14/2014	Date Completed: 5/14/2014			None
Completion Depth: 12 feet	Field Technician K Waters			

B5 (NTS)	(ft below grade)	Reco-very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	0 to 2	24		0.0	24" - Medium tan soil. No odor. **Soil Sample retained B5 (0-2).*
	2 to 4	24		0.0	24" - Medium tan soil. No odor.
	4 to 6	24		0.0	24" - Medium tan soil. No odor.
	6 to 8	24		0.0	24" - Medium tan soil. No odor.
	8 to 10	24		0.0	*24" - Medium tan soil. No odor.*
	10 to 12	24		0.0	24" - Medium tan sand. No odor. **Soil Sample retained B5(10-12)*

ATTACHMENT C
GROUNDWATER SAMPLING LOGS

GROUNDWATER PURGE / SAMPLE LOGS

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW2

Date: 5/20/2014

Well Depth (from TOC): 60

Equipment: Geopump Peristaltic Pump

Static Water Level (from TOC): 56.45

Field Personnel: Kevin Waters

Height of Water in Well: 3.55

Gallons of Water per Well Volume: 0.142

Flow Rate: 400ml/min.

Time	Time (24Hr)	Pump Rate	Gal. Removed	pH	Cond. (µS/cm)	Temp. (ºF)	Comments
0.00	10:30	400ml/min	0				turbid
4.00	10:34	400ml/min	0.44				clear
7.00	10:37	400ml/min	0.77				clear

Note 400 ml = 0.11 gallons

ATTACHMENT D
SOIL GAS SAMPLING LOGS

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. #
Page 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: File
☐ Phone #:

Report to:
Customer: EBC
Address: Ridge NY

Invoice to: EBC

Sampled by: kw

Project Name: 87-67 171st Queens NY
Requested Deliverable:
RCP ☐ ASP CAT B ☐
MCP ☐ NJ Deliverables ☐
State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
47222	Sg-2	362	6.0	-30	-8	5041	42	1155	1727	5.20	-29	-9		X			X
47223	Sg-3	216	↓	↓	-5	3411	↓	1150	1352	5.20	-30	-7		X			X
47224	Sg-1	12855	↓	↓	-4	4488	↓	1200	1354	5.20	-29	-6		X			X
	6L 24hr																

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-21-14	1113
[signature]	Monica [signature]	5-21-14	1540

Data Format:
Excel ☑ Equis ☐ GISKey ☐
PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date:

ATTACHMENT E
LABORATORY REPORTS IN DIGITAL FORMAT

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 28, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 87-67 171ST QUEENS NY
Sample ID#s: BG47222 - BG47224

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 28, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	05/20/14	17:27
Location Code:	EBC	Received by:	SW	05/21/14	15:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG47222
Phoenix ID: BG47222

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trimethylbenzene	7.38	*0.204*	36.2	*1.00*	05/22/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/22/14	KCA	TO15	
1,3,5-Trimethylbenzene	2.98	*0.204*	14.6	*1.00*	05/22/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/22/14	KCA	TO15	
1,3-Dichlorobenzene	1.01	*0.166*	6.07	*1.00*	05/22/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
2-Hexanone(MBK)	30.2	*0.244*	124	*1.00*	05/22/14	KCA	TO15	1
4-Ethyltoluene	0.920	*0.204*	4.52	*1.00*	05/22/14	KCA	TO15	1
4-Isopropyltoluene	1.11	*0.182*	6.09	*1.00*	05/22/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	05/22/14	KCA	TO15	
Acetone	3120	*0.421*	7410	*1.00*	05/22/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/22/14	KCA	TO15	
Benzene	0.500	*0.313*	1.60	*1.00*	05/22/14	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-2

Phoenix I.D.: BG47222

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/22/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	05/22/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/22/14	KCA	TO15	
Carbon Disulfide	3.22	*0.321*	10.0	*1.00*	05/22/14	KCA	TO15	
Carbon Tetrachloride	0.150	*0.040*	0.943	*0.25*	05/22/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroform	1.75	*0.205*	8.54	*1.00*	05/22/14	KCA	TO15	
Chloromethane	0.500	*0.484*	1.03	*1.00*	05/22/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Cyclohexane	ND	*0.291*	ND	*1.00*	05/22/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/22/14	KCA	TO15	
Dichlorodifluoromethane	0.270	*0.202*	1.33	*1.00*	05/22/14	KCA	TO15	
Ethanol	224	*0.531*	422	*1.00*	05/22/14	KCA	TO15	1
Ethyl acetate	3.30	*0.278*	11.9	*1.00*	05/22/14	KCA	TO15	1
Ethylbenzene	0.790	*0.230*	3.43	*1.00*	05/22/14	KCA	TO15	
Heptane	9.19	*0.244*	37.6	*1.00*	05/22/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/22/14	KCA	TO15	
Hexane	7.23	*0.284*	25.5	*1.00*	05/22/14	KCA	TO15	
Isopropylalcohol	284	*0.407*	698	*1.00*	05/22/14	KCA	TO15	
Isopropylbenzene	0.550	*0.204*	2.70	*1.00*	05/22/14	KCA	TO15	
m,p-Xylene	2.60	*0.230*	11.3	*1.00*	05/22/14	KCA	TO15	
Methyl Ethyl Ketone	354	*0.339*	1040	*1.00*	05/22/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
Methylene Chloride	1.04	*0.288*	3.61	*1.00*	05/22/14	KCA	TO15	
n-Butylbenzene	1.16	*0.182*	6.36	*1.00*	05/22/14	KCA	TO15	1
o-Xylene	1.20	*0.230*	5.21	*1.00*	05/22/14	KCA	TO15	
Propylene	328	*0.581*	564	*1.00*	05/22/14	KCA	TO15	1
sec-Butylbenzene	0.870	*0.182*	4.77	*1.00*	05/22/14	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/22/14	KCA	TO15	
Tetrachloroethene	3.24	*0.037*	22.0	*0.25*	05/22/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	05/22/14	KCA	TO15	1
Toluene	3.14	*0.266*	11.8	*1.00*	05/22/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Trichloroethene	0.720	*0.047*	3.87	*0.25*	05/22/14	KCA	TO15	
Trichlorofluoromethane	0.180	*0.178*	1.01	*1.00*	05/22/14	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/22/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	107	%	107	%	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY

Client ID: SG-2

Phoenix I.D.: BG47222

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 28, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 28, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	05/20/14	13:52
Location Code:	EBC	Received by:	SW	05/21/14	15:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG47222
Phoenix ID: BG47223

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trimethylbenzene	7.29	*0.204*	35.8	*1.00*	05/22/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/22/14	KCA	TO15	
1,3,5-Trimethylbenzene	2.97	*0.204*	14.6	*1.00*	05/22/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/22/14	KCA	TO15	
1,3-Dichlorobenzene	0.300	*0.166*	1.80	*1.00*	05/22/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
2-Hexanone(MBK)	24.4	*0.244*	99.9	*1.00*	05/22/14	KCA	TO15	1
4-Ethyltoluene	0.920	*0.204*	4.52	*1.00*	05/22/14	KCA	TO15	1
4-Isopropyltoluene	1.08	*0.182*	5.92	*1.00*	05/22/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	05/22/14	KCA	TO15	
Acetone	1940	*0.421*	4600	*1.00*	05/22/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/22/14	KCA	TO15	
Benzene	0.320	*0.313*	1.02	*1.00*	05/22/14	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-3

Phoenix I.D.: BG47223

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/22/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	05/22/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/22/14	KCA	TO15	
Carbon Disulfide	0.370	*0.321*	1.15	*1.00*	05/22/14	KCA	TO15	
Carbon Tetrachloride	0.050	*0.040*	0.314	*0.25*	05/22/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	05/22/14	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/22/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Cyclohexane	ND	*0.291*	ND	*1.00*	05/22/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/22/14	KCA	TO15	
Dichlorodifluoromethane	0.440	*0.202*	2.17	*1.00*	05/22/14	KCA	TO15	
Ethanol	127	*0.531*	239	*1.00*	05/22/14	KCA	TO15	1
Ethyl acetate	2.14	*0.278*	7.71	*1.00*	05/22/14	KCA	TO15	1
Ethylbenzene	0.720	*0.230*	3.12	*1.00*	05/22/14	KCA	TO15	
Heptane	6.93	*0.244*	28.4	*1.00*	05/22/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/22/14	KCA	TO15	
Hexane	4.83	*0.284*	17.0	*1.00*	05/22/14	KCA	TO15	
Isopropylalcohol	129	*0.407*	317	*1.00*	05/22/14	KCA	TO15	
Isopropylbenzene	0.520	*0.204*	2.55	*1.00*	05/22/14	KCA	TO15	
m,p-Xylene	2.37	*0.230*	10.3	*1.00*	05/22/14	KCA	TO15	
Methyl Ethyl Ketone	261	*0.339*	769	*1.00*	05/22/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
Methylene Chloride	0.640	*0.288*	2.22	*1.00*	05/22/14	KCA	TO15	
n-Butylbenzene	1.12	*0.182*	6.14	*1.00*	05/22/14	KCA	TO15	1
o-Xylene	1.06	*0.230*	4.60	*1.00*	05/22/14	KCA	TO15	
Propylene	148	*0.581*	254	*1.00*	05/22/14	KCA	TO15	1
sec-Butylbenzene	0.840	*0.182*	4.61	*1.00*	05/22/14	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/22/14	KCA	TO15	
Tetrachloroethene	1.44	*0.037*	9.76	*0.25*	05/22/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	05/22/14	KCA	TO15	1
Toluene	2.77	*0.266*	10.4	*1.00*	05/22/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Trichloroethene	0.220	*0.047*	1.18	*0.25*	05/22/14	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	05/22/14	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/22/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	105	*%*	105	*%*	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY

Client ID: SG-3

Phoenix I.D.: BG47223

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

May 28, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 28, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	05/20/14	13:54
Location Code:	EBC	Received by:	SW	05/21/14	15:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG47222
Phoenix ID: BG47224

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/22/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/22/14	KCA	TO15	
1,2,4-Trimethylbenzene	6.82	*0.204*	33.5	*1.00*	05/22/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/22/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/22/14	KCA	TO15	
1,3,5-Trimethylbenzene	2.73	*0.204*	13.4	*1.00*	05/22/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/22/14	KCA	TO15	
1,3-Dichlorobenzene	0.970	*0.166*	5.83	*1.00*	05/22/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/22/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
2-Hexanone(MBK)	23.4	*0.244*	95.8	*1.00*	05/22/14	KCA	TO15	1
4-Ethyltoluene	0.900	*0.204*	4.42	*1.00*	05/22/14	KCA	TO15	1
4-Isopropyltoluene	0.910	*0.182*	4.99	*1.00*	05/22/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	05/22/14	KCA	TO15	
Acetone	890	*0.421*	2110	*1.00*	05/22/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/22/14	KCA	TO15	
Benzene	ND	*0.313*	ND	*1.00*	05/22/14	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-1

Phoenix I.D.: BG47224

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/22/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	05/22/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/22/14	KCA	TO15	
Carbon Disulfide	0.370	*0.321*	1.15	*1.00*	05/22/14	KCA	TO15	
Carbon Tetrachloride	0.050	*0.040*	0.314	*0.25*	05/22/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/22/14	KCA	TO15	
Chloroform	0.240	*0.205*	1.17	*1.00*	05/22/14	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/22/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Cyclohexane	0.670	*0.291*	2.30	*1.00*	05/22/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/22/14	KCA	TO15	
Dichlorodifluoromethane	0.480	*0.202*	2.37	*1.00*	05/22/14	KCA	TO15	
Ethanol	77.2	*0.531*	145	*1.00*	05/22/14	KCA	TO15	1
Ethyl acetate	0.990	*0.278*	3.56	*1.00*	05/22/14	KCA	TO15	1
Ethylbenzene	0.740	*0.230*	3.21	*1.00*	05/22/14	KCA	TO15	
Heptane	5.43	*0.244*	22.2	*1.00*	05/22/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/22/14	KCA	TO15	
Hexane	3.37	*0.284*	11.9	*1.00*	05/22/14	KCA	TO15	
Isopropylalcohol	43.3	*0.407*	106	*1.00*	05/22/14	KCA	TO15	
Isopropylbenzene	0.480	*0.204*	2.36	*1.00*	05/22/14	KCA	TO15	
m,p-Xylene	2.21	*0.230*	9.59	*1.00*	05/22/14	KCA	TO15	
Methyl Ethyl Ketone	144	*0.339*	424	*1.00*	05/22/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/22/14	KCA	TO15	
Methylene Chloride	3.62	*0.288*	12.6	*1.00*	05/22/14	KCA	TO15	
n-Butylbenzene	1.13	*0.182*	6.20	*1.00*	05/22/14	KCA	TO15	1
o-Xylene	1.00	*0.230*	4.34	*1.00*	05/22/14	KCA	TO15	
Propylene	42.4	*0.581*	72.9	*1.00*	05/22/14	KCA	TO15	1
sec-Butylbenzene	0.770	*0.182*	4.22	*1.00*	05/22/14	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/22/14	KCA	TO15	
Tetrachloroethene	1.09	*0.037*	7.39	*0.25*	05/22/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	05/22/14	KCA	TO15	1
Toluene	2.49	*0.266*	9.38	*1.00*	05/22/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/22/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/22/14	KCA	TO15	
Trichloroethene	0.150	*0.047*	0.806	*0.25*	05/22/14	KCA	TO15	
Trichlorofluoromethane	0.180	*0.178*	1.01	*1.00*	05/22/14	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/22/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/22/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	103	*%*	103	*%*	05/22/14	KCA	TO15	

Project ID: 87-67 171ST QUEENS NY
Client ID: SG-1

Phoenix I.D.: BG47224

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 28, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 28, 2014

QA/QC Data

SDG I.D.: GBG47222

QA/QC Batch 275026, QC Sample No: BG47248 (BG47222, BG47223, BG47224)

Volatiles

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	91	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	124	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	97	63.4	61.4	12.9	12.5	3.1	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	96	143	147	29.2	30.0	2.7	70 - 130	20
1,3-Butadiene	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	101	124	128	20.7	21.3	2.9	70 - 130	20
1,4-Dichlorobenzene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	97	26.8	31.7	5.46	6.45	16.6	70 - 130	20
4-Isopropyltoluene	ND	ND	97	15.0	16.0	2.73	2.92	6.7	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Acetone	ND	ND	90	70.0	68.6	29.5	28.9	2.1	70 - 130	20
Acrylonitrile	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Benzyl chloride	ND	ND	>140	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	117	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	113	0.566	0.566	0.090	0.090	0.0	70 - 130	20
Chlorobenzene	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	89	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	95	2.39	2.34	0.490	0.480	2.1	70 - 130	20
Chloromethane	ND	ND	88	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	95	13.0	13.2	3.77	3.84	1.8	70 - 130	20
Dibromochloromethane	ND	ND	121	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	100	2.47	2.42	0.500	0.490	2.0	70 - 130	20
Ethanol	ND	ND	87	2.24	2.41	1.19	1.28	7.3	70 - 130	20

QA/QC Data

SDG I.D.: GBG47222

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	101	2.47	2.52	0.570	0.580	1.7	70 - 130	20
Heptane	ND	ND	93	15.8	16.5	3.86	4.04	4.6	70 - 130	20
Hexachlorobutadiene	ND	ND	85	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	96	18.5	19.3	5.25	5.47	4.1	70 - 130	20
Isopropylalcohol	ND	ND	95	27.3	27.8	11.1	11.3	1.8	70 - 130	20
Isopropylbenzene	ND	ND	99	1.72	1.72	0.350	0.350	0.0	70 - 130	20
m,p-Xylene	ND	ND	100	97.2	98.5	22.4	22.7	1.3	70 - 130	20
Methyl Ethyl Ketone	ND	ND	98	158	156	53.7	52.8	1.7	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	80	4.37	5.21	1.26	1.50	17.4	70 - 130	20
n-Butylbenzene	ND	ND	103	29.4	29.4	5.35	5.36	0.2	70 - 130	20
o-Xylene	ND	ND	97	65.1	66.0	15.0	15.2	1.3	70 - 130	20
Propylene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	ND	94	2.19	2.19	0.400	0.400	0.0	70 - 130	20
Styrene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	111	6.24	6.24	0.920	0.920	0.0	70 - 130	20
Tetrahydrofuran	ND	ND	106	513	513	174	174	0.0	70 - 130	20
Toluene	ND	ND	106	2.67	2.67	0.710	0.710	0.0	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	124	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	96	1.29	1.24	0.230	0.220	4.4	70 - 130	20
Trichlorotrifluoroethane	ND	ND	88	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	89	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	109	109	94	120	120	120	120	0.0	70 - 130	20

I = This parameter is outside laboratory lcs/lcsd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 28, 2014

Sample Criteria Exceedences Report

GBG47222 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426
email: greg@phoenixlabs.com

P.O. #
Page 1 of 1

Data Delivery:
☐ Fax #:
☑ Email: File
☐ Phone #:

Report to:
Customer: EBC
Address: Ridge NY

Invoice to: EBC

Sampled by: kw

Project Name: 87-67 171st Queens NY
Requested Deliverable:
RCP ☐ ASP CAT B ☐
MCP ☐ NJ Deliverables ☐
State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
47222	Sg-2	362	6.0	-30	-8	5041	42	1155	1727	5.20	-29	-9		X			X
47223	Sg-3	216	↓	↓	-5	3411	↓	1150	1352	5.20	-30	-7		X			X
47224	Sg-1	12855	↓	↓	-4	4488	↓	1200	1354	5.20	-29	-6		X			X
	6L 24hr																

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-21-14	1113
[signature]	Monica [signature]	5-21-14	1540

Data Format:
Excel ☑ Equis ☐ GISKey ☐
PDF ☑ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date:

PHOENIX
Environmental Laboratories, Inc.

Monday, June 02, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 87-67 171ST QUEENS
Sample ID#s: BG47228 - BG47229

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 02, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/20/14	13:00
Location Code:	EBC	Received by:	SW	05/21/14	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG47228
Phoenix ID: BG47228

Project ID: 87-67 171ST QUEENS
Client ID: MW 2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver (Dissolved)	< 0.005		0.005	0.005	mg/L	05/23/14	LK	SW6010
Aluminum (Dissolved)	0.15		0.01	0.005	mg/L	05/21/14	LK	SW6010
Arsenic, (Dissolved)	< 0.003		0.003	0.004	mg/L	05/21/14	LK	SW6010
Barium (Dissolved)	0.199		0.011	0.001	mg/L	05/21/14	LK	SW6010
Beryllium (Dissolved)	< 0.001		0.001	0.001	mg/L	05/21/14	LK	SW6010
Calcium (Dissolved)	118		0.01	0.01	mg/L	05/21/14	LK	SW6010
Cadmium (Dissolved)	0.001	B*	0.004	0.0005	mg/L	05/21/14	LK	SW6010
Cobalt, (Dissolved)	0.181		0.005	0.001	mg/L	05/21/14	LK	SW6010
Chromium (Dissolved)	0.002		0.001	0.001	mg/L	05/21/14	LK	SW6010
Copper, (Dissolved)	0.005		0.005	0.001	mg/L	05/21/14	LK	SW6010
Iron, (Dissolved)	1.49		0.01	0.01	mg/L	05/21/14	LK	SW6010
Mercury (Dissolved)	< 0.0002		0.0002	0.00015	mg/L	05/22/14	RS	SW7470
Potassium (Dissolved)	10.9		0.1	0.01	mg/L	05/21/14	LK	SW6010
Magnesium (Dissolved)	27.5		0.01	0.01	mg/L	05/21/14	LK	SW6010
Manganese, (Dissolved)	17.4		0.053	0.011	mg/L	05/21/14	LK	SW6010
Sodium (Dissolved)	44.1		0.11	0.01	mg/L	05/21/14	LK	SW6010
Nickel, (Dissolved)	0.401		0.004	0.001	mg/L	05/21/14	LK	SW6010
Lead (Dissolved)	< 0.002		0.002	0.001	mg/L	05/21/14	LK	SW6010
Antimony, (Dissolved)	< 0.003		0.003	0.003	mg/L	05/22/14	RS	7010
Selenium, (Dissolved)	< 0.004		0.004	0.002	mg/L	05/22/14	TH	7010
Thallium , (Dissolved)	< 0.001		0.001	0.001	mg/L	05/23/14	TH	7010
Vanadium, (Dissolved)	< 0.011		0.011	0.001	mg/L	05/21/14	LK	SW6010
Zinc, (Dissolved)	0.020		0.011	0.0012	mg/L	05/21/14	LK	SW6010
Filtration	Completed					05/21/14	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					05/22/14	I/I	SW7470
PCB Extraction	Completed					05/21/14	L	SW3510C
Extraction for Pest (2 Liter)	Completed					05/21/14	L	SW3510
Semi-Volatile Extraction	Completed					05/21/14	J/K	SW3520

Project ID: 87-67 171ST QUEENS
Client ID: MW 2

Phoenix I.D.: BG47228

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Dissolved Metals Preparation	Completed				05/21/14	AG	SW846-3005	
Pesticides								
4,4' -DDD	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
4,4' -DDE	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
4,4' -DDT	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
a-BHC	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
a-chlordane	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Alachlor	ND	0.075	0.075	ug/L	05/23/14	CE	SW8081	1
Aldrin	ND	0.002	0.002	ug/L	05/23/14	CE	SW8081	
b-BHC	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
Chlordane	ND	0.10	0.10	ug/L	05/23/14	CE	SW8081	
d-BHC	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
Dieldrin	ND	0.002	0.002	ug/L	05/23/14	CE	SW8081	
Endosulfan I	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endosulfan II	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin Aldehyde	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin ketone	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
g-chlordane	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Heptachlor	ND	0.016	0.016	ug/L	05/23/14	CE	SW8081	
Heptachlor epoxide	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Methoxychlor	ND	0.10	0.10	ug/L	05/23/14	CE	SW8081	
Toxaphene	ND	0.25	0.25	ug/L	05/23/14	CE	SW8081	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	52			%	05/23/14	CE	SW8081	
%TCMX (Surrogate Rec)	72			%	05/23/14	CE	SW8081	
Polychlorinated Biphenyls								
PCB-1016	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1221	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1232	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1242	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1248	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1254	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1260	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1262	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1268	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
QA/QC Surrogates								
% DCBP	32			%	05/22/14	AW	30 - 150 %	
% TCMX	44			%	05/22/14	AW	30 - 150 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	2.0	0.38	ug/L	05/21/14	MH	SW8260	
1,1,1-Trichloroethane	ND	10	0.38	ug/L	05/21/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/L	05/21/14	MH	SW8260	
1,1,2-Trichloroethane	ND	2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,1-Dichloroethane	ND	10	0.46	ug/L	05/21/14	MH	SW8260	

Project ID: 87-67 171ST QUEENS
Client ID: MW 2

Phoenix I.D.: BG47228

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloroethene	ND		2.0	0.48	ug/L	05/21/14	MH	SW8260	
1,1-Dichloropropene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2,3-Trichloropropane	ND		2.0	0.42	ug/L	05/21/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,2,4-Trimethylbenzene	18		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND		2.0	0.72	ug/L	05/21/14	MH	SW8260	
1,2-Dibromoethane	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
1,2-Dichloroethane	ND		4.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2-Dichloropropane	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,3,5-Trimethylbenzene	7.3		2.0	0.42	ug/L	05/21/14	MH	SW8260	
1,3-Dichlorobenzene	ND		10	0.38	ug/L	05/21/14	MH	SW8260	
1,3-Dichloropropane	ND		2.0	0.44	ug/L	05/21/14	MH	SW8260	
1,4-Dichlorobenzene	ND		10	0.38	ug/L	05/21/14	MH	SW8260	
2,2-Dichloropropane	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
2-Chlorotoluene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
2-Hexanone	ND		2.0	0.54	ug/L	05/21/14	MH	SW8260	
2-Isopropyltoluene	ND		2.0	0.42	ug/L	05/21/14	MH	SW8260	1
4-Chlorotoluene	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
4-Methyl-2-pentanone	ND		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Acetone	19	S	10	0.62	ug/L	05/21/14	MH	SW8260	
Acrolein	ND		10	1.9	ug/L	05/21/14	MH	SW8260	
Acrylonitrile	ND		10	0.34	ug/L	05/21/14	MH	SW8260	
Benzene	0.50	J	1.4	0.38	ug/L	05/21/14	MH	SW8260	
Bromobenzene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
Bromochloromethane	ND		2.0	0.44	ug/L	05/21/14	MH	SW8260	
Bromodichloromethane	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
Bromoform	ND		10	0.20	ug/L	05/21/14	MH	SW8260	
Bromomethane	ND		10	0.50	ug/L	05/21/14	MH	SW8260	
Carbon Disulfide	ND		2.0	0.48	ug/L	05/21/14	MH	SW8260	
Carbon tetrachloride	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Chlorobenzene	ND		10	0.40	ug/L	05/21/14	MH	SW8260	
Chloroethane	ND		10	0.48	ug/L	05/21/14	MH	SW8260	
Chloroform	3.7	J	10	0.44	ug/L	05/21/14	MH	SW8260	
Chloromethane	ND		10	0.42	ug/L	05/21/14	MH	SW8260	
cis-1,2-Dichloroethene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
cis-1,3-Dichloropropene	ND		0.80	0.30	ug/L	05/21/14	MH	SW8260	
Dibromochloromethane	ND		2.0	0.30	ug/L	05/21/14	MH	SW8260	
Dibromomethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Dichlorodifluoromethane	ND		2.0	0.52	ug/L	05/21/14	MH	SW8260	
Ethylbenzene	3.0		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Hexachlorobutadiene	ND		2.0	0.26	ug/L	05/21/14	MH	SW8260	
Isopropylbenzene	0.64	J	2.0	0.44	ug/L	05/21/14	MH	SW8260	
m&p-Xylene	16		2.0	0.84	ug/L	05/21/14	MH	SW8260	
Methyl ethyl ketone	4.5		2.0	1.0	ug/L	05/21/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	ND		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Methylene chloride	0.72	JS	6.0	0.32	ug/L	05/21/14	MH	SW8260	
Naphthalene	16		2.0	0.38	ug/L	05/21/14	MH	SW8260	

Project ID: 87-67 171ST QUEENS
Client ID: MW 2

Phoenix I.D.: BG47228

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
n-Butylbenzene	0.44	J	2.0	0.44	ug/L	05/21/14	MH	SW8260	
n-Propylbenzene	1.2	J	2.0	0.40	ug/L	05/21/14	MH	SW8260	
o-Xylene	12		2.0	0.90	ug/L	05/21/14	MH	SW8260	
p-Isopropyltoluene	0.60	J	2.0	0.42	ug/L	05/21/14	MH	SW8260	
sec-Butylbenzene	ND		2.0	0.44	ug/L	05/21/14	MH	SW8260	
Styrene	ND		2.0	0.82	ug/L	05/21/14	MH	SW8260	
tert-Butylbenzene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Tetrachloroethene	7.9		2.0	0.48	ug/L	05/21/14	MH	SW8260	
Tetrahydrofuran (THF)	ND		10	1.0	ug/L	05/21/14	MH	SW8260	1
Toluene	9.5		2.0	0.40	ug/L	05/21/14	MH	SW8260	
trans-1,2-Dichloroethene	ND		10	0.40	ug/L	05/21/14	MH	SW8260	
trans-1,3-Dichloropropene	ND		0.80	0.28	ug/L	05/21/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND		2.0	0.90	ug/L	05/21/14	MH	SW8260	
Trichloroethene	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
Trichlorofluoromethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Trichlorotrifluoroethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Vinyl chloride	ND		2.0	0.28	ug/L	05/21/14	MH	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102				%	05/21/14	MH	70 - 121 %	
% Bromofluorobenzene	97				%	05/21/14	MH	59 - 113 %	
% Dibromofluoromethane	96				%	05/21/14	MH	70 - 130 %	
% Toluene-d8	101				%	05/21/14	MH	84 - 138 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND		5.4	1.6	ug/L	05/24/14	DD	SW 8270	
1,2-Dichlorobenzene	ND		1.1	1.5	ug/L	05/24/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270	
1,3-Dichlorobenzene	ND		1.1	1.6	ug/L	05/24/14	DD	SW 8270	
1,4-Dichlorobenzene	ND		1.1	1.6	ug/L	05/24/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2,4-Dichlorophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2,4-Dimethylphenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2,4-Dinitrophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2,4-Dinitrotoluene	ND		5.4	2.1	ug/L	05/24/14	DD	SW 8270	
2,6-Dinitrotoluene	ND		5.4	1.7	ug/L	05/24/14	DD	SW 8270	
2-Chloronaphthalene	ND		5.4	1.5	ug/L	05/24/14	DD	SW 8270	
2-Chlorophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2-Methylnaphthalene	3.1	J	5.4	1.6	ug/L	05/24/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
2-Nitroaniline	ND		5.4	5.4	ug/L	05/24/14	DD	SW 8270	
2-Nitrophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		5.4	2.6	ug/L	05/24/14	DD	SW 8270	
3-Nitroaniline	ND		5.4	5.4	ug/L	05/24/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		5.4	1.6	ug/L	05/24/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270	
4-Chloroaniline	ND		3.8	2.5	ug/L	05/24/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Nitroaniline	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270
4-Nitrophenol	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270
Acenaphthene	ND		5.4	1.6	ug/L	05/24/14	DD	SW 8270
Acetophenone	ND		5.4	1.7	ug/L	05/24/14	DD	SW 8270
Aniline	ND		3.8	5.4	ug/L	05/24/14	DD	SW 8270
Anthracene	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270
Benzidine	ND		4.9	3.2	ug/L	05/24/14	DD	SW 8270
Benzoic acid	15	J	27	11	ug/L	05/24/14	DD	SW 8270
Benzyl butyl phthalate	ND		5.4	1.4	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroethoxy)methane	ND		5.4	1.5	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroethyl)ether	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND		5.4	1.5	ug/L	05/24/14	DD	SW 8270
Carbazole	ND		27	4.1	ug/L	05/24/14	DD	SW 8270
Dibenzofuran	ND		5.4	1.6	ug/L	05/24/14	DD	SW 8270
Diethyl phthalate	ND		5.4	1.7	ug/L	05/24/14	DD	SW 8270
Dimethylphthalate	ND		5.4	1.7	ug/L	05/24/14	DD	SW 8270
Di-n-butylphthalate	ND		5.4	1.4	ug/L	05/24/14	DD	SW 8270
Di-n-octylphthalate	ND		5.4	1.4	ug/L	05/24/14	DD	SW 8270
Fluoranthene	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270
Fluorene	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270
Hexachlorocyclopentadiene	ND		5.4	1.7	ug/L	05/24/14	DD	SW 8270
Isophorone	ND		5.4	1.5	ug/L	05/24/14	DD	SW 8270
Naphthalene	4.9	J	5.4	1.6	ug/L	05/24/14	DD	SW 8270
N-Nitrosodimethylamine	ND		1.1	1.1	ug/L	05/24/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		5.4	1.8	ug/L	05/24/14	DD	SW 8270
N-Nitrosodiphenylamine	ND		5.4	2.1	ug/L	05/24/14	DD	SW 8270
Phenol	ND		1.1	1.7	ug/L	05/24/14	DD	SW 8270
Pyrene	ND		5.4	1.9	ug/L	05/24/14	DD	SW 8270
Pyridine	ND		11	1.3	ug/L	05/24/14	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	97				%	05/24/14	DD	19 - 122 %
% 2-Fluorobiphenyl	76				%	05/24/14	DD	30 - 115 %
% 2-Fluorophenol	77				%	05/24/14	DD	25 - 121 %
% Nitrobenzene-d5	92				%	05/24/14	DD	23 - 120 %
% Phenol-d5	44				%	05/24/14	DD	24 - 113 %
% Terphenyl-d14	85				%	05/24/14	DD	18 - 137 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND		0.54	0.54	ug/L	05/23/14	DD	SW8270 (SIM)
Acenaphthylene	ND		0.11	0.11	ug/L	05/23/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.10		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.07		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.07		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	0.04		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.03		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	3.3		1.1	1.1	ug/L	05/23/14	DD	SW8270 (SIM)
Chrysene	0.07		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Hexachlorobutadiene	ND		0.43	0.43	ug/L	05/23/14	DD	SW8270 (SIM)

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Hexachloroethane	ND	0.54	0.54	ug/L	05/23/14	DD	SW8270 (SIM)	
Indeno(1,2,3-cd)pyrene	0.02	0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)	
Nitrobenzene	ND	0.11	0.11	ug/L	05/23/14	DD	SW8270 (SIM)	
Pentachloronitrobenzene	ND	0.11	0.11	ug/L	05/23/14	DD	SW8270 (SIM)	
Pentachlorophenol	ND	0.86	0.86	ug/L	05/23/14	DD	SW8270 (SIM)	
Phenanthrene	0.26	0.11	0.11	ug/L	05/23/14	DD	SW8270 (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	125			%	05/23/14	DD	15 - 110 %	3
% 2-Fluorobiphenyl	82			%	05/23/14	DD	30 - 115 %	
% 2-Fluorophenol	66			%	05/23/14	DD	15 - 110 %	
% Nitrobenzene-d5	114			%	05/23/14	DD	23 - 120 %	
% Phenol-d5	60			%	05/23/14	DD	15 - 110 %	
% Terphenyl-d14	153			%	05/23/14	DD	18 - 137 %	3

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Elevated reporting limits due to the foamy nature of the sample.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the pesticide analysis.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 02, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

June 02, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/20/14	0:00
Location Code:	EBC	Received by:	SW	05/21/14	15:40
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG47228
Phoenix ID: BG47229

Project ID: 87-67 171ST QUEENS
Client ID: DUPLICATE

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Silver (Dissolved)	< 0.005		0.005	0.005	mg/L	05/23/14	LK	SW6010
Aluminum (Dissolved)	0.11		0.01	0.005	mg/L	05/21/14	LK	SW6010
Arsenic, (Dissolved)	< 0.003		0.003	0.004	mg/L	05/21/14	LK	SW6010
Barium (Dissolved)	0.197		0.011	0.001	mg/L	05/21/14	LK	SW6010
Beryllium (Dissolved)	< 0.001		0.001	0.001	mg/L	05/21/14	LK	SW6010
Calcium (Dissolved)	115		0.01	0.01	mg/L	05/21/14	LK	SW6010
Cadmium (Dissolved)	0.001	B*	0.004	0.0005	mg/L	05/21/14	LK	SW6010
Cobalt, (Dissolved)	0.178		0.005	0.001	mg/L	05/21/14	LK	SW6010
Chromium (Dissolved)	0.002		0.001	0.001	mg/L	05/21/14	LK	SW6010
Copper, (Dissolved)	0.006		0.005	0.001	mg/L	05/21/14	LK	SW6010
Iron, (Dissolved)	1.40		0.01	0.01	mg/L	05/21/14	LK	SW6010
Mercury (Dissolved)	< 0.0002		0.0002	0.00015	mg/L	05/22/14	RS	SW7470
Potassium (Dissolved)	10.8		0.1	0.01	mg/L	05/21/14	LK	SW6010
Magnesium (Dissolved)	26.7		0.01	0.01	mg/L	05/21/14	LK	SW6010
Manganese, (Dissolved)	16.3		0.053	0.011	mg/L	05/21/14	LK	SW6010
Sodium (Dissolved)	43.3		0.11	0.01	mg/L	05/21/14	LK	SW6010
Nickel, (Dissolved)	0.394		0.004	0.001	mg/L	05/21/14	LK	SW6010
Lead (Dissolved)	< 0.002		0.002	0.001	mg/L	05/21/14	LK	SW6010
Antimony, (Dissolved)	< 0.003		0.003	0.003	mg/L	05/22/14	RS	7010
Selenium, (Dissolved)	< 0.004		0.004	0.002	mg/L	05/22/14	TH	7010
Thallium , (Dissolved)	< 0.001		0.001	0.001	mg/L	05/23/14	TH	7010
Vanadium, (Dissolved)	< 0.011		0.011	0.001	mg/L	05/21/14	LK	SW6010
Zinc, (Dissolved)	0.020		0.011	0.0012	mg/L	05/21/14	LK	SW6010
Filtration	Completed					05/21/14	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					05/22/14	I/I	SW7470
PCB Extraction	Completed					05/21/14	L	SW3510C
Extraction for Pest (2 Liter)	Completed					05/21/14	L	SW3510
Semi-Volatile Extraction	Completed					05/21/14	J/K	SW3520

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Dissolved Metals Preparation	Completed				05/21/14	AG	SW846-3005	
Pesticides								
4,4' -DDD	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
4,4' -DDE	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
4,4' -DDT	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
a-BHC	ND	0.006	0.006	ug/L	05/23/14	CE	SW8081	
a-chlordane	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Alachlor	ND	0.075	0.075	ug/L	05/23/14	CE	SW8081	1
Aldrin	ND	0.002	0.002	ug/L	05/23/14	CE	SW8081	
b-BHC	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
Chlordane	ND	0.10	0.10	ug/L	05/23/14	CE	SW8081	
d-BHC	ND	0.006	0.006	ug/L	05/23/14	CE	SW8081	
Dieldrin	ND	0.002	0.002	ug/L	05/23/14	CE	SW8081	
Endosulfan I	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endosulfan II	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endosulfan Sulfate	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin Aldehyde	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Endrin ketone	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
g-BHC (Lindane)	ND	0.005	0.005	ug/L	05/23/14	CE	SW8081	
g-chlordane	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Heptachlor	ND	0.017	0.017	ug/L	05/23/14	CE	SW8081	
Heptachlor epoxide	ND	0.010	0.010	ug/L	05/23/14	CE	SW8081	
Methoxychlor	ND	0.10	0.10	ug/L	05/23/14	CE	SW8081	
Toxaphene	ND	0.25	0.25	ug/L	05/23/14	CE	SW8081	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	55			%	05/23/14	CE	SW8081	
%TCMX (Surrogate Rec)	87			%	05/23/14	CE	SW8081	
Polychlorinated Biphenyls								
PCB-1016	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1221	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1232	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1242	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1248	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1254	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1260	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1262	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
PCB-1268	ND	0.072	0.072	ug/L	05/22/14	AW	8082	
QA/QC Surrogates								
% DCBP	36			%	05/22/14	AW	30 - 150 %	
% TCMX	53			%	05/22/14	AW	30 - 150 %	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	2.0	0.38	ug/L	05/21/14	MH	SW8260	
1,1,1-Trichloroethane	ND	10	0.38	ug/L	05/21/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.0	0.30	ug/L	05/21/14	MH	SW8260	
1,1,2-Trichloroethane	ND	2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,1-Dichloroethane	ND	10	0.46	ug/L	05/21/14	MH	SW8260	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloroethene	ND		2.0	0.48	ug/L	05/21/14	MH	SW8260	
1,1-Dichloropropene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2,3-Trichloropropane	ND		2.0	0.42	ug/L	05/21/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,2,4-Trimethylbenzene	19		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND		2.0	0.72	ug/L	05/21/14	MH	SW8260	
1,2-Dibromoethane	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2-Dichlorobenzene	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
1,2-Dichloroethane	ND		4.0	0.40	ug/L	05/21/14	MH	SW8260	
1,2-Dichloropropane	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
1,3,5-Trimethylbenzene	7.6		2.0	0.42	ug/L	05/21/14	MH	SW8260	
1,3-Dichlorobenzene	ND		10	0.38	ug/L	05/21/14	MH	SW8260	
1,3-Dichloropropane	ND		2.0	0.44	ug/L	05/21/14	MH	SW8260	
1,4-Dichlorobenzene	ND		10	0.38	ug/L	05/21/14	MH	SW8260	
2,2-Dichloropropane	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
2-Chlorotoluene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
2-Hexanone	ND		2.0	0.54	ug/L	05/21/14	MH	SW8260	
2-Isopropyltoluene	ND		2.0	0.42	ug/L	05/21/14	MH	SW8260	1
4-Chlorotoluene	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
4-Methyl-2-pentanone	ND		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Acetone	16	S	10	0.62	ug/L	05/21/14	MH	SW8260	
Acrolein	ND		10	1.9	ug/L	05/21/14	MH	SW8260	
Acrylonitrile	ND		10	0.34	ug/L	05/21/14	MH	SW8260	
Benzene	0.54	J	1.4	0.38	ug/L	05/21/14	MH	SW8260	
Bromobenzene	ND		2.0	0.40	ug/L	05/21/14	MH	SW8260	
Bromochloromethane	ND		2.0	0.44	ug/L	05/21/14	MH	SW8260	
Bromodichloromethane	ND		2.0	0.32	ug/L	05/21/14	MH	SW8260	
Bromoform	ND		10	0.20	ug/L	05/21/14	MH	SW8260	
Bromomethane	ND		10	0.50	ug/L	05/21/14	MH	SW8260	
Carbon Disulfide	ND		2.0	0.48	ug/L	05/21/14	MH	SW8260	
Carbon tetrachloride	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Chlorobenzene	ND		10	0.40	ug/L	05/21/14	MH	SW8260	
Chloroethane	ND		10	0.48	ug/L	05/21/14	MH	SW8260	
Chloroform	3.9	J	10	0.44	ug/L	05/21/14	MH	SW8260	
Chloromethane	ND		10	0.42	ug/L	05/21/14	MH	SW8260	
cis-1,2-Dichloroethene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
cis-1,3-Dichloropropene	ND		0.80	0.30	ug/L	05/21/14	MH	SW8260	
Dibromochloromethane	ND		2.0	0.30	ug/L	05/21/14	MH	SW8260	
Dibromomethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Dichlorodifluoromethane	ND		2.0	0.52	ug/L	05/21/14	MH	SW8260	
Ethylbenzene	3.2		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Hexachlorobutadiene	ND		2.0	0.26	ug/L	05/21/14	MH	SW8260	
Isopropylbenzene	0.74	J	2.0	0.44	ug/L	05/21/14	MH	SW8260	
m&p-Xylene	15		2.0	0.84	ug/L	05/21/14	MH	SW8260	
Methyl ethyl ketone	3.4		2.0	1.0	ug/L	05/21/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	ND		2.0	0.38	ug/L	05/21/14	MH	SW8260	
Methylene chloride	0.78	JS	6.0	0.32	ug/L	05/21/14	MH	SW8260	
Naphthalene	16		2.0	0.38	ug/L	05/21/14	MH	SW8260	

Project ID: 87-67 171ST QUEENS
Client ID: DUPLICATE

Phoenix I.D.: BG47229

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
n-Butylbenzene	0.46	J	2.0	0.44	ug/L	05/21/14	MH	SW8260	
n-Propylbenzene	1.1	J	2.0	0.40	ug/L	05/21/14	MH	SW8260	
o-Xylene	12		2.0	0.90	ug/L	05/21/14	MH	SW8260	
p-Isopropyltoluene	0.58	J	2.0	0.42	ug/L	05/21/14	MH	SW8260	
sec-Butylbenzene	0.44	J	2.0	0.44	ug/L	05/21/14	MH	SW8260	
Styrene	0.84	J	2.0	0.82	ug/L	05/21/14	MH	SW8260	
tert-Butylbenzene	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Tetrachloroethene	8.3		2.0	0.48	ug/L	05/21/14	MH	SW8260	
Tetrahydrofuran (THF)	ND		10	1.0	ug/L	05/21/14	MH	SW8260	1
Toluene	9.5		2.0	0.40	ug/L	05/21/14	MH	SW8260	
trans-1,2-Dichloroethene	ND		10	0.40	ug/L	05/21/14	MH	SW8260	
trans-1,3-Dichloropropene	ND		0.80	0.28	ug/L	05/21/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND		2.0	0.90	ug/L	05/21/14	MH	SW8260	
Trichloroethene	ND		2.0	0.36	ug/L	05/21/14	MH	SW8260	
Trichlorofluoromethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Trichlorotrifluoroethane	ND		2.0	0.46	ug/L	05/21/14	MH	SW8260	
Vinyl chloride	ND		2.0	0.28	ug/L	05/21/14	MH	SW8260	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101				%	05/21/14	MH	70 - 121 %	
% Bromofluorobenzene	98				%	05/21/14	MH	59 - 113 %	
% Dibromofluoromethane	95				%	05/21/14	MH	70 - 130 %	
% Toluene-d8	100				%	05/21/14	MH	84 - 138 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND		5.0	1.5	ug/L	05/24/14	DD	SW 8270	
1,2-Dichlorobenzene	ND		1.0	1.4	ug/L	05/24/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270	
1,3-Dichlorobenzene	ND		1.0	1.5	ug/L	05/24/14	DD	SW 8270	
1,4-Dichlorobenzene	ND		1.0	1.5	ug/L	05/24/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2,4-Dichlorophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2,4-Dimethylphenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2,4-Dinitrophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2,4-Dinitrotoluene	ND		5.0	2.0	ug/L	05/24/14	DD	SW 8270	
2,6-Dinitrotoluene	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270	
2-Chloronaphthalene	ND		5.0	1.4	ug/L	05/24/14	DD	SW 8270	
2-Chlorophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2-Methylnaphthalene	4.4	J	5.0	1.5	ug/L	05/24/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
2-Nitroaniline	ND		5.0	5.0	ug/L	05/24/14	DD	SW 8270	
2-Nitrophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	1.5		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
3,3'-Dichlorobenzidine	ND		5.0	2.4	ug/L	05/24/14	DD	SW 8270	
3-Nitroaniline	ND		5.0	5.0	ug/L	05/24/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND		5.0	1.5	ug/L	05/24/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270	
4-Chloroaniline	ND		3.5	2.3	ug/L	05/24/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND		5.0	1.7	ug/L	05/24/14	DD	SW 8270	

Project ID: 87-67 171ST QUEENS
Client ID: DUPLICATE

Phoenix I.D.: BG47229

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
4-Nitroaniline	ND		5.0	1.7	ug/L	05/24/14	DD	SW 8270
4-Nitrophenol	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270
Acenaphthene	ND		5.0	1.5	ug/L	05/24/14	DD	SW 8270
Acetophenone	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
Aniline	ND		3.5	5.0	ug/L	05/24/14	DD	SW 8270
Anthracene	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
Benzidine	ND		4.5	2.9	ug/L	05/24/14	DD	SW 8270
Benzoic acid	16	J	25	10	ug/L	05/24/14	DD	SW 8270
Benzyl butyl phthalate	ND		5.0	1.3	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroethoxy)methane	ND		5.0	1.4	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroethyl)ether	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND		5.0	1.4	ug/L	05/24/14	DD	SW 8270
Carbazole	ND		25	3.8	ug/L	05/24/14	DD	SW 8270
Dibenzofuran	ND		5.0	1.5	ug/L	05/24/14	DD	SW 8270
Diethyl phthalate	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
Dimethylphthalate	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
Di-n-butylphthalate	ND		5.0	1.3	ug/L	05/24/14	DD	SW 8270
Di-n-octylphthalate	ND		5.0	1.3	ug/L	05/24/14	DD	SW 8270
Fluoranthene	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
Fluorene	ND		5.0	1.7	ug/L	05/24/14	DD	SW 8270
Hexachlorocyclopentadiene	ND		5.0	1.5	ug/L	05/24/14	DD	SW 8270
Isophorone	ND		5.0	1.4	ug/L	05/24/14	DD	SW 8270
Naphthalene	7.1		5.0	1.4	ug/L	05/24/14	DD	SW 8270
N-Nitrosodimethylamine	ND		1.0	1.0	ug/L	05/24/14	DD	SW 8270
N-Nitrosodi-n-propylamine	ND		5.0	1.6	ug/L	05/24/14	DD	SW 8270
N-Nitrosodiphenylamine	ND		5.0	1.9	ug/L	05/24/14	DD	SW 8270
Phenol	ND		1.0	1.6	ug/L	05/24/14	DD	SW 8270
Pyrene	ND		5.0	1.7	ug/L	05/24/14	DD	SW 8270
Pyridine	ND		10	1.2	ug/L	05/24/14	DD	SW 8270
QA/QC Surrogates								
% 2,4,6-Tribromophenol	96				%	05/24/14	DD	19 - 122 %
% 2-Fluorobiphenyl	76				%	05/24/14	DD	30 - 115 %
% 2-Fluorophenol	44				%	05/24/14	DD	25 - 121 %
% Nitrobenzene-d5	94				%	05/24/14	DD	23 - 120 %
% Phenol-d5	71				%	05/24/14	DD	24 - 113 %
% Terphenyl-d14	60				%	05/24/14	DD	18 - 137 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND		0.50	0.50	ug/L	05/23/14	DD	SW8270 (SIM)
Acenaphthylene	ND		0.10	0.10	ug/L	05/23/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.07		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.05		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.05		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	0.03		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.03		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	1.0		1.0	1.0	ug/L	05/23/14	DD	SW8270 (SIM)
Chrysene	0.05		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND		0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Hexachlorobutadiene	ND		0.40	0.40	ug/L	05/23/14	DD	SW8270 (SIM)

Project ID: 87-67 171ST QUEENS
Client ID: DUPLICATE

Phoenix I.D.: BG47229

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Hexachloroethane	ND	0.50	0.50	ug/L	05/23/14	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	0.02	ug/L	05/23/14	DD	SW8270 (SIM)
Nitrobenzene	ND	0.10	0.10	ug/L	05/23/14	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	0.10	ug/L	05/23/14	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	0.80	ug/L	05/23/14	DD	SW8270 (SIM)
Phenanthrene	0.27	0.10	0.10	ug/L	05/23/14	DD	SW8270 (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	110			%	05/23/14	DD	15 - 110 %
% 2-Fluorobiphenyl	76			%	05/23/14	DD	30 - 115 %
% 2-Fluorophenol	86			%	05/23/14	DD	15 - 110 %
% Nitrobenzene-d5	103			%	05/23/14	DD	23 - 120 %
% Phenol-d5	71			%	05/23/14	DD	15 - 110 %
% Terphenyl-d14	126			%	05/23/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the pesticide analysis.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
June 02, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Monday, June 02, 2014

Criteria: NY: 375, 375RRS, 375RS

State: NY

Sample Criteria Exceedences Report

GBG47228 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

June 02, 2014

SDG I.D.: GBG47228

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☑ ICE ☐ No ☐

Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax:
☐ Phone:
☑ Email: File

Customer: EBC
Address: Ridge NY

Project: 87-67 171st Queens NY
Report to:
Invoice to:

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 5.20.14

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC 8260	SVOC 8270	TAL metals Dissolved	Total PCBs	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [☑] HCl	GL Amber 1000ml [☑] As is [ ] H2SO4	PL As is [☑] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
47228	mw 2	gw	5.20	1300								3	3	1				
47229	Duplicate	gw	5.20									3	3	1				
47230	trip blank *											2						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-21-14	1130
[signature]	[signature]	5-21-14	15:40

Comments, Special Requirements or Regulations:
* No TB recieved. ok per Kevin at EBC (SW)

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☑ 5 Days
☐ 10 Days
☐ Other
* SURCHARGE APPLIES

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TAGM 4046 GW
☐ TAGM 4046 SOIL
☑ NY375 Unrestricted Use Soil
☑ NY375 Residential Soil
☑ Restricted/Residential
☐ Commercial
☐ Industrial

Data Format
☐ Phoenix Std Report
☑ Excel
☑ PDF
☐ GIS/Key
☑ EQuIS
☐ NJ Hazsite EDD
☑ NY EZ EDD (ASP)
☐ Other

Data Package
☐ NJ Reduced Deliv. *
☑ NY Enhanced (ASP B) *
☐ Other

State where samples were collected: NY

GBG 47228

Shannon - Phoenixlabs

From: Kevin Waters [kwaters@ebcincny.com]
Sent: Wednesday, May 21, 2014 01:48 PM
To: Shannon - Phoenixlabs
Cc: Kevin Brussee; <schen@ebcincny.com>
Subject: Re: 87-67 171st Queens NY

Yes please

On May 21, 2014, at 1:46 PM, "Shannon - Phoenixlabs" <shannon@phoenixlabs.com> wrote:

> Good Afternoon,
> We picked up samples today but no analysis was checked off. Your sample id's are MW 2 & Duplicate. 8260, 8270, TAL dissolved metals, Pests & Pcb's are written on the chain of custody. Did you want all of these parametes for both sets of samples? Please let me know. Thank you.
>
> Shannon Wilhelm
> Phoenix Environmental Labs

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 13, 2014

Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Project ID: 87-67 171ST ST
Sample ID#s: BG41046 - BG41056

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41046

Project ID: 87-67 171ST ST
Client ID: B1 0-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.38		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Aluminum	10900	*	38	7.6	mg/Kg	05/07/14	LK	SW6010	
Arsenic	2.6		0.8	0.76	mg/Kg	05/07/14	LK	SW6010	
Barium	61.8	*	0.8	0.38	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.41		0.30	0.15	mg/Kg	05/07/14	LK	SW6010	
Calcium	2890	*	3.8	3.5	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.24	B*	0.38	0.15	mg/Kg	05/07/14	LK	SW6010	
Cobalt	8.96	*	0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Chromium	19.3		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Copper	33.4		0.38	0.38	mg/kg	05/07/14	LK	SW6010	
Iron	19000		38	38	mg/Kg	05/07/14	LK	SW6010	
Mercury	0.07	B	0.09	0.05	mg/Kg	05/07/14	RS	SW-7471	B*
Potassium	945		8	3.0	mg/Kg	05/08/14	LK	SW6010	
Magnesium	2620	*	3.8	3.8	mg/Kg	05/07/14	LK	SW6010	
Manganese	476	N	3.8	3.8	mg/Kg	05/07/14	LK	SW6010	
Sodium	158	N*	8	3.3	mg/Kg	05/08/14	LK	SW6010	
Nickel	18.0		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Lead	84.3	*	0.8	0.38	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.9		1.9	1.9	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.5		1.5	1.3	mg/Kg	05/08/14	LK	SW6010	
Thallium	< 1.5		1.5	1.5	mg/Kg	05/07/14	LK	SW6010	
Vanadium	32.4		0.4	0.38	mg/Kg	05/07/14	LK	SW6010	
Zinc	128	N*	0.8	0.38	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	90				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B1 0-2

Phoenix I.D.: BG41046

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	72			%	05/07/14	AW	30 - 150 %
% TCMX	58			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	22	22	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.2	7.2	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	110			%	05/08/14	CE	30 - 150 %
% TCMX	86			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	0.91	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	0.79	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.6	0.54	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		280	56	ug/Kg	05/08/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		280	39	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		280	56	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		280	40	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		280	74	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		280	31	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.6	0.49	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.6	0.79	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		280	37	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		280	41	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.6	0.59	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		280	44	ug/Kg	05/08/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.6	0.93	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		280	44	ug/Kg	05/08/14	JLI	SW8260	
2-Hexanone	ND		28	2.5	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		280	38	ug/Kg	05/08/14	JLI	SW8260	1
4-Chlorotoluene	ND		280	32	ug/Kg	05/08/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		28	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.5	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.1	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		280	36	ug/Kg	05/08/14	JLI	SW8260	
Bromochloromethane	ND		5.6	0.81	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.6	0.69	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.6	0.78	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.6	4.3	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.6	0.90	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.6	0.64	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.6	0.82	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.6	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.6	2.9	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.6	0.60	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.6	0.62	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.6	0.70	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		280	58	ug/Kg	05/08/14	JLI	SW8260	
Isopropylbenzene	ND		280	53	ug/Kg	05/08/14	JLI	SW8260	
m&p-Xylene	ND		5.6	2.2	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		33	4.8	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	1.9	JS	5.6	0.91	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		280	74	ug/Kg	05/08/14	JLI	SW8260	
n-Butylbenzene	ND		280	51	ug/Kg	05/08/14	JLI	SW8260	
n-Propylbenzene	ND		280	50	ug/Kg	05/08/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.6	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	280	40	ug/Kg	05/08/14	JLI	SW8260	
sec-Butylbenzene	ND	280	52	ug/Kg	05/08/14	JLI	SW8260	
Styrene	ND	5.6	1.6	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	280	44	ug/Kg	05/08/14	JLI	SW8260	
Tetrachloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	5.0	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.6	0.88	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	560	520	ug/Kg	05/08/14	JLI	SW8260	
Trichloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.6	0.87	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.6	1.8	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	103			%	05/08/14	JLI	70 - 121 %	
% Bromofluorobenzene	96			%	05/08/14	JLI	59 - 113 %	
% Dibromofluoromethane	111			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	100			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	05/08/14	KCA	SW 8270	
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Dichlorobenzene	ND	260	100	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	05/08/14	KCA	SW 8270	
1,3-Dichlorobenzene	ND	260	110	ug/Kg	05/08/14	KCA	SW 8270	
1,4-Dichlorobenzene	ND	260	110	ug/Kg	05/08/14	KCA	SW 8270	
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	05/08/14	KCA	SW 8270	
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dichlorophenol	ND	260	130	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dimethylphenol	ND	260	91	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrophenol	ND	1800	260	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrotoluene	ND	260	140	ug/Kg	05/08/14	KCA	SW 8270	
2,6-Dinitrotoluene	ND	260	120	ug/Kg	05/08/14	KCA	SW 8270	
2-Chloronaphthalene	ND	260	100	ug/Kg	05/08/14	KCA	SW 8270	
2-Chlorophenol	ND	260	100	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylnaphthalene	ND	260	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitroaniline	ND	1800	370	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitrophenol	ND	260	230	ug/Kg	05/08/14	KCA	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	260	140	ug/Kg	05/08/14	KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	730	170	ug/Kg	05/08/14	KCA	SW 8270	
3-Nitroaniline	ND	1800	800	ug/Kg	05/08/14	KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	390	ug/Kg	05/08/14	KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloroaniline	ND	730	170	ug/Kg	05/08/14	KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	05/08/14	KCA	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	05/08/14	KCA	SW 8270	

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Phoenix I.D.: BG41046

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND		1800	170	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthene	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthylene	ND		260	100	ug/Kg	05/08/14	KCA	SW 8270	
Acetophenone	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Aniline	ND		1800	740	ug/Kg	05/08/14	KCA	SW 8270	
Anthracene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Benz(a)anthracene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzidine	ND		730	220	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(a)pyrene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(b)fluoranthene	140	J	260	130	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(ghi)perylene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(k)fluoranthene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzoic acid	ND		1800	730	ug/Kg	05/08/14	KCA	SW 8270	1
Benzyl butyl phthalate	ND		260	94	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND		260	100	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethyl)ether	ND		260	99	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND		260	100	ug/Kg	05/08/14	KCA	SW 8270	1
Bis(2-ethylhexyl)phthalate	2900		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Carbazole	ND		1800	280	ug/Kg	05/08/14	KCA	SW 8270	
Chrysene	130	J	260	120	ug/Kg	05/08/14	KCA	SW 8270	
Dibenz(a,h)anthracene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Dibenzofuran	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Diethyl phthalate	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Dimethylphthalate	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-butylphthalate	ND		260	97	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-octylphthalate	ND		260	94	ug/Kg	05/08/14	KCA	SW 8270	
Fluoranthene	220	J	260	120	ug/Kg	05/08/14	KCA	SW 8270	
Fluorene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobenzene	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobutadiene	ND		260	130	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorocyclopentadiene	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Hexachloroethane	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Isophorone	ND		260	100	ug/Kg	05/08/14	KCA	SW 8270	
Naphthalene	ND		260	110	ug/Kg	05/08/14	KCA	SW 8270	
Nitrobenzene	ND		260	130	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodimethylamine	ND		260	100	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodiphenylamine	ND		260	140	ug/Kg	05/08/14	KCA	SW 8270	
Pentachloronitrobenzene	ND		260	140	ug/Kg	05/08/14	KCA	SW 8270	
Pentachlorophenol	ND		260	140	ug/Kg	05/08/14	KCA	SW 8270	
Phenanthrene	110	J	260	100	ug/Kg	05/08/14	KCA	SW 8270	
Phenol	ND		260	120	ug/Kg	05/08/14	KCA	SW 8270	
Pyrene	260		260	130	ug/Kg	05/08/14	KCA	SW 8270	
Pyridine	ND		260	90	ug/Kg	05/08/14	KCA	SW 8270	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	82				%	05/08/14	KCA	19 - 122 %	
% 2-Fluorobiphenyl	88				%	05/08/14	KCA	30 - 115 %	
% 2-Fluorophenol	79				%	05/08/14	KCA	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B1 0-2

Phoenix I.D.: BG41046

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	85			%	05/08/14	KCA	23 - 120 %
% Phenol-d5	83			%	05/08/14	KCA	24 - 113 %
% Terphenyl-d14	98			%	05/08/14	KCA	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B* = Present in blank, a bias is possible.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41047

Project ID: 87-67 171ST ST
Client ID: B1 10-12

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.33		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Aluminum	6060	*	33	6.5	mg/Kg	05/07/14	LK	SW6010	
Arsenic	1.2		0.7	0.65	mg/Kg	05/07/14	LK	SW6010	
Barium	26.7	*	0.7	0.33	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.22	B	0.26	0.13	mg/Kg	05/07/14	LK	SW6010	
Calcium	746	*	3.3	3.0	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.17	B*	0.33	0.13	mg/Kg	05/07/14	LK	SW6010	
Cobalt	6.02	*	0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Chromium	15.1		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Copper	14.7		0.33	0.33	mg/kg	05/07/14	LK	SW6010	
Iron	15800		33	33	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.06		0.06	0.04	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	638		7	2.6	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1540	*	3.3	3.3	mg/Kg	05/07/14	LK	SW6010	
Manganese	320	N	3.3	3.3	mg/Kg	05/07/14	LK	SW6010	
Sodium	76	N*	7	2.8	mg/Kg	05/08/14	LK	SW6010	
Nickel	11.3		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Lead	3.4	*	0.7	0.33	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.6		1.6	1.6	mg/Kg	05/08/14	LK	SW6010	
Selenium	< 1.3		1.3	1.1	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.3		1.3	1.3	mg/Kg	05/07/14	LK	SW6010	
Vanadium	22.0		0.3	0.33	mg/Kg	05/07/14	LK	SW6010	
Zinc	16.9	N*	0.7	0.33	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	92				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	96			%	05/07/14	AW	30 - 150 %
% TCMX	83			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.1	7.1	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	121			%	05/08/14	CE	30 - 150 %
% TCMX	94			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	0.76	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	0.53	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.4	0.59	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.4	0.47	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.4	0.71	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.4	0.57	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.4	0.90	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		27	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.4	0.74	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		27	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.3	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.0	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.4	0.70	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.4	0.79	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.4	0.67	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.4	0.75	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.4	4.1	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.4	0.87	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.4	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.4	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.4	0.58	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.4	0.60	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.4	0.68	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		32	4.7	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.4	JS	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.4	0.97	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.4	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.8	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.4	0.84	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.4	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	92			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	113			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	104			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1800	250	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1800	360	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	250	220	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	710	170	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1800	770	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	710	160	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	05/08/14	DD	SW 8270	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1800	160	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1800	710	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	710	210	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1800	710	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	250	95	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1800	270	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	250	94	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	79			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	83			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	78			%	05/08/14	DD	25 - 121 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	81			%	05/08/14	DD	23 - 120 %
% Phenol-d5	79			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	94			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41048

Project ID: 87-67 171ST ST
Client ID: B2 0-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.35		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Aluminum	13100	*	35	7.1	mg/Kg	05/07/14	LK	SW6010	
Arsenic	7.9		0.7	0.71	mg/Kg	05/07/14	LK	SW6010	
Barium	324	*	0.7	0.35	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.54		0.28	0.14	mg/Kg	05/07/14	LK	SW6010	
Calcium	4110	*	3.5	3.3	mg/Kg	05/07/14	LK	SW6010	
Cadmium	1.01	*	0.35	0.14	mg/Kg	05/07/14	LK	SW6010	
Cobalt	7.38	*	0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Chromium	23.6		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Copper	44.1		0.35	0.35	mg/kg	05/07/14	LK	SW6010	
Iron	18200		35	35	mg/Kg	05/07/14	LK	SW6010	
Mercury	0.28		0.08	0.05	mg/Kg	05/07/14	RS	SW-7471	B*
Potassium	946		7	2.8	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1840	*	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Manganese	351	N	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Sodium	111	N*	7	3.0	mg/Kg	05/08/14	LK	SW6010	
Nickel	15.5		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Lead	1090	*	7.1	3.5	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.8		1.8	1.8	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.4		1.4	1.2	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.4		1.4	1.4	mg/Kg	05/07/14	LK	SW6010	
Vanadium	43.1		0.4	0.35	mg/Kg	05/07/14	LK	SW6010	
Zinc	380	N*	7.1	3.5	mg/Kg	05/07/14	LK	SW6010	B
Percent Solid	85				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	38	38	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	97			%	05/07/14	AW	30 - 150 %
% TCMX	72			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.7	2.7	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.7	2.7	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	8.2	2.7	2.7	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Chlordane	44	23	23	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.8	3.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.9	1.9	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	15	15	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	190	190	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	117			%	05/08/14	CE	30 - 150 %
% TCMX	83			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	0.97	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.9	1.2	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	0.84	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.9	0.58	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.9	1.2	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.9	1.3	ug/Kg	05/07/14	JLI	SW8260

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.9	1.2	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		290	59	ug/Kg	05/08/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		290	42	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		290	59	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		290	42	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		290	79	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.9	1.6	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		290	32	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.9	0.52	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.9	0.84	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		290	39	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		290	44	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.9	0.63	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		290	46	ug/Kg	05/08/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.9	1.0	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		290	47	ug/Kg	05/08/14	JLI	SW8260	
2-Hexanone	ND		30	2.7	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		290	41	ug/Kg	05/08/14	JLI	SW8260	1
4-Chlorotoluene	ND		290	34	ug/Kg	05/08/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		30	1.4	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.9	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		12	3.3	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.9	1.2	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		290	38	ug/Kg	05/08/14	JLI	SW8260	
Bromochloromethane	ND		5.9	0.87	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.9	0.74	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.9	0.83	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.9	4.6	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.9	0.96	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.9	0.69	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.9	0.88	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.9	1.4	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.9	1.1	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.9	3.1	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.9	1.3	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.9	0.64	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.9	0.67	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.9	0.75	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.9	1.6	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.9	1.1	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		290	62	ug/Kg	05/08/14	JLI	SW8260	
Isopropylbenzene	ND		290	56	ug/Kg	05/08/14	JLI	SW8260	
m&p-Xylene	ND		5.9	2.3	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		36	5.2	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		12	1.6	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.2	JS	5.9	0.97	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		290	79	ug/Kg	05/08/14	JLI	SW8260	
n-Butylbenzene	ND		290	54	ug/Kg	05/08/14	JLI	SW8260	
n-Propylbenzene	ND		290	53	ug/Kg	05/08/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.9	2.3	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	290	42	ug/Kg	05/08/14	JLI	SW8260	
sec-Butylbenzene	ND	290	55	ug/Kg	05/08/14	JLI	SW8260	
Styrene	ND	5.9	1.7	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	290	47	ug/Kg	05/08/14	JLI	SW8260	
Tetrachloroethene	ND	5.9	1.2	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	12	5.3	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.9	0.94	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.9	1.2	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.9	1.2	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	590	550	ug/Kg	05/08/14	JLI	SW8260	
Trichloroethene	ND	5.9	1.3	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.9	1.3	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.9	0.93	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.9	1.9	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105			%	05/08/14	JLI	70 - 121 %	
% Bromofluorobenzene	100			%	05/08/14	JLI	59 - 113 %	
% Dibromofluoromethane	112			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	102			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	130	ug/Kg	05/08/14	KCA	SW 8270	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Diphenylhydrazine	ND	270	120	ug/Kg	05/08/14	KCA	SW 8270	
1,3-Dichlorobenzene	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
1,4-Dichlorobenzene	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	05/08/14	KCA	SW 8270	
2,4,6-Trichlorophenol	ND	270	120	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dichlorophenol	ND	270	130	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dimethylphenol	ND	270	95	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrophenol	ND	1900	270	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrotoluene	ND	270	150	ug/Kg	05/08/14	KCA	SW 8270	
2,6-Dinitrotoluene	ND	270	120	ug/Kg	05/08/14	KCA	SW 8270	
2-Chloronaphthalene	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Chlorophenol	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylnaphthalene	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitroaniline	ND	1900	390	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitrophenol	ND	270	240	ug/Kg	05/08/14	KCA	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	05/08/14	KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	760	180	ug/Kg	05/08/14	KCA	SW 8270	
3-Nitroaniline	ND	1900	830	ug/Kg	05/08/14	KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1900	410	ug/Kg	05/08/14	KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	270	110	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloro-3-methylphenol	ND	270	130	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloroaniline	ND	760	180	ug/Kg	05/08/14	KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	05/08/14	KCA	SW 8270	
4-Nitroaniline	ND	1900	130	ug/Kg	05/08/14	KCA	SW 8270	

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND		1900	170	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthene	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthylene	130	J	270	110	ug/Kg	05/08/14	KCA	SW 8270	
Acetophenone	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Aniline	ND		1900	770	ug/Kg	05/08/14	KCA	SW 8270	
Anthracene	180	J	270	130	ug/Kg	05/08/14	KCA	SW 8270	
Benz(a)anthracene	1100		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Benzidine	ND		760	220	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(a)pyrene	1100		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(b)fluoranthene	1400		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(ghi)perylene	730		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(k)fluoranthene	580		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Benzoic acid	ND		1900	760	ug/Kg	05/08/14	KCA	SW 8270	1
Benzyl butyl phthalate	ND		270	98	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethyl)ether	ND		270	100	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Carbazole	ND		1900	290	ug/Kg	05/08/14	KCA	SW 8270	
Chrysene	1200		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Dibenz(a,h)anthracene	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Dibenzofuran	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Diethyl phthalate	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Dimethylphthalate	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-butylphthalate	ND		270	100	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-octylphthalate	ND		270	98	ug/Kg	05/08/14	KCA	SW 8270	
Fluoranthene	2100		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Fluorene	ND		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobenzene	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobutadiene	ND		270	140	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorocyclopentadiene	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Hexachloroethane	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	660		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Isophorone	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Naphthalene	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Nitrobenzene	ND		270	130	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodimethylamine	ND		270	110	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodiphenylamine	ND		270	150	ug/Kg	05/08/14	KCA	SW 8270	
Pentachloronitrobenzene	ND		270	140	ug/Kg	05/08/14	KCA	SW 8270	
Pentachlorophenol	ND		270	140	ug/Kg	05/08/14	KCA	SW 8270	
Phenanthrene	630		270	110	ug/Kg	05/08/14	KCA	SW 8270	
Phenol	ND		270	120	ug/Kg	05/08/14	KCA	SW 8270	
Pyrene	2100		270	130	ug/Kg	05/08/14	KCA	SW 8270	
Pyridine	ND		270	94	ug/Kg	05/08/14	KCA	SW 8270	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	72				%	05/08/14	KCA	19 - 122 %	
% 2-Fluorobiphenyl	81				%	05/08/14	KCA	30 - 115 %	
% 2-Fluorophenol	66				%	05/08/14	KCA	25 - 121 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	82			%	05/08/14	KCA	23 - 120 %
% Phenol-d5	77			%	05/08/14	KCA	24 - 113 %
% Terphenyl-d14	97			%	05/08/14	KCA	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B* = Present in blank, a bias is possible.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41049

Project ID: 87-67 171ST ST
Client ID: B2 10-12

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.34		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Aluminum	6350	*	34	6.7	mg/Kg	05/07/14	LK	SW6010	
Arsenic	1.3		0.7	0.67	mg/Kg	05/07/14	LK	SW6010	
Barium	34.3	*	0.7	0.34	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.24	B	0.27	0.13	mg/Kg	05/07/14	LK	SW6010	
Calcium	1380	*	3.4	3.1	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.19	B*	0.34	0.13	mg/Kg	05/07/14	LK	SW6010	
Cobalt	6.91	*	0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Chromium	22.7		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Copper	18.5		0.34	0.34	mg/kg	05/07/14	LK	SW6010	
Iron	16700		34	34	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.08		0.08	0.05	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	728		7	2.6	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1950	*	3.4	3.4	mg/Kg	05/07/14	LK	SW6010	
Manganese	281	N	3.4	3.4	mg/Kg	05/07/14	LK	SW6010	
Sodium	137	N*	7	2.9	mg/Kg	05/08/14	LK	SW6010	
Nickel	15.2		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Lead	6.3	*	0.7	0.34	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.7		1.7	1.7	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.3		1.3	1.1	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.3		1.3	1.3	mg/Kg	05/07/14	LK	SW6010	
Vanadium	29.9		0.3	0.34	mg/Kg	05/07/14	LK	SW6010	
Zinc	17.2	N*	0.7	0.34	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	92				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B2 10-12

Phoenix I.D.: BG41049

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	100			%	05/07/14	AW	30 - 150 %
% TCMX	74			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.1	7.1	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	112			%	05/08/14	CE	30 - 150 %
% TCMX	89			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	0.89	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	0.77	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	0.53	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B2 10-12

Phoenix I.D.: BG41049

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.4	0.78	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.4	1.5	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.4	0.60	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.4	0.48	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.4	0.72	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.4	0.58	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.4	0.91	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.4	0.87	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		27	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.4	0.75	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.4	0.63	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		27	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.4	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.1	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.4	0.71	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.4	0.79	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.4	0.67	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.4	4.2	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.4	0.88	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.4	0.63	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.4	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.4	0.99	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.4	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.4	0.59	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.4	0.61	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.4	0.68	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.4	0.99	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		33	4.7	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	1.9	JS	5.4	0.89	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.4	1.5	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.4	0.99	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.4	0.78	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.4	1.6	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.4	0.87	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.9	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.4	1.8	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	110			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	94			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	115			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	103			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1800	250	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1800	360	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	250	220	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	700	170	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1800	770	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	700	160	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	05/08/14	DD	SW 8270	

Project ID: 87-67 171ST ST
Client ID: B2 10-12

Phoenix I.D.: BG41049

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1800	160	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1800	710	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	700	210	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1800	700	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	250	95	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1800	270	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	250	94	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	73			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	81			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	65			%	05/08/14	DD	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B2 10-12

Phoenix I.D.: BG41049

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	76			%	05/08/14	DD	23 - 120 %
% Phenol-d5	75			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	93			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41050

Project ID: 87-67 171ST ST
Client ID: B3 0-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	0.36		0.32	0.32	mg/Kg	05/08/14	LK	SW6010	
Aluminum	6900	*	32	6.4	mg/Kg	05/07/14	LK	SW6010	
Arsenic	1.9		0.6	0.64	mg/Kg	05/07/14	LK	SW6010	
Barium	47.7	*	0.6	0.32	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.23	B	0.26	0.13	mg/Kg	05/07/14	LK	SW6010	
Calcium	1540	*	3.2	2.9	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.31	B*	0.32	0.13	mg/Kg	05/07/14	LK	SW6010	
Cobalt	4.66	*	0.32	0.32	mg/Kg	05/07/14	LK	SW6010	
Chromium	22.8		0.32	0.32	mg/Kg	05/07/14	LK	SW6010	
Copper	26.2		0.32	0.32	mg/kg	05/07/14	LK	SW6010	
Iron	19300		32	32	mg/Kg	05/07/14	LK	SW6010	
Mercury	0.65		0.08	0.05	mg/Kg	05/07/14	RS	SW-7471	B*
Potassium	1000		6	2.5	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1730	*	3.2	3.2	mg/Kg	05/07/14	LK	SW6010	
Manganese	106	N	0.32	0.32	mg/Kg	05/07/14	LK	SW6010	
Sodium	120	N*	6	2.8	mg/Kg	05/08/14	LK	SW6010	
Nickel	12.2		0.32	0.32	mg/Kg	05/07/14	LK	SW6010	
Lead	111	*	0.6	0.32	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.6		1.6	1.6	mg/Kg	05/08/14	LK	SW6010	
Selenium	< 1.3		1.3	1.1	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.3		1.3	1.3	mg/Kg	05/07/14	LK	SW6010	
Vanadium	33.3		0.3	0.32	mg/Kg	05/07/14	LK	SW6010	
Zinc	35.2	N*	0.6	0.32	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	93				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B3 0-2

Phoenix I.D.: BG41050

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	93			%	05/07/14	AW	30 - 150 %
% TCMX	73			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.1	7.1	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	109			%	05/08/14	CE	30 - 150 %
% TCMX	85			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	0.87	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	0.76	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	0.52	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.3	1.2	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B3 0-2

Phoenix I.D.: BG41050

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.3	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.3	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.3	0.59	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.3	0.47	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.3	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.3	0.70	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.3	0.79	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.3	0.56	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.3	0.84	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.3	0.89	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.3	0.85	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		27	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.3	0.73	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.3	0.62	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		27	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.3	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.0	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.3	0.69	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.3	0.78	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.3	0.66	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.3	0.75	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.3	4.1	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.3	0.86	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.3	0.62	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.3	0.79	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.3	1.2	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.3	0.97	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.3	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.3	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.3	0.57	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.3	0.60	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.3	0.67	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.3	0.97	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.3	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		32	4.6	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.1	JS	5.3	0.87	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.3	0.97	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.3	0.96	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.3	2.0	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.3	0.77	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.3	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.3	0.85	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.8	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.3	0.84	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	9.9	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.3	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.3	0.83	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.3	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	112			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	89			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	114			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	102			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	05/08/14	KCA	SW 8270	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	05/08/14	KCA	SW 8270	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	KCA	SW 8270	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	KCA	SW 8270	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	05/08/14	KCA	SW 8270	
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dichlorophenol	ND	250	120	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dimethylphenol	ND	250	87	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrophenol	ND	1800	250	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrotoluene	ND	250	140	ug/Kg	05/08/14	KCA	SW 8270	
2,6-Dinitrotoluene	ND	250	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Chloronaphthalene	ND	250	99	ug/Kg	05/08/14	KCA	SW 8270	
2-Chlorophenol	ND	250	99	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylnaphthalene	ND	250	100	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylphenol (o-cresol)	ND	250	160	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitroaniline	ND	1800	350	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitrophenol	ND	250	220	ug/Kg	05/08/14	KCA	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	05/08/14	KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	700	170	ug/Kg	05/08/14	KCA	SW 8270	
3-Nitroaniline	ND	1800	760	ug/Kg	05/08/14	KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	05/08/14	KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloroaniline	ND	700	160	ug/Kg	05/08/14	KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	05/08/14	KCA	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	05/08/14	KCA	SW 8270	

Project ID: 87-67 171ST ST
Client ID: B3 0-2

Phoenix I.D.: BG41050

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND		1800	160	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthene	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthylene	ND		250	98	ug/Kg	05/08/14	KCA	SW 8270	
Acetophenone	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Aniline	ND		1800	710	ug/Kg	05/08/14	KCA	SW 8270	
Anthracene	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Benz(a)anthracene	170	J	250	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzidine	ND		700	210	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(a)pyrene	170	J	250	110	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(b)fluoranthene	230	J	250	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(ghi)perylene	130	J	250	110	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(k)fluoranthene	ND		250	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzoic acid	ND		1800	700	ug/Kg	05/08/14	KCA	SW 8270	1
Benzyl butyl phthalate	ND		250	90	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND		250	97	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethyl)ether	ND		250	95	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND		250	97	ug/Kg	05/08/14	KCA	SW 8270	1
Bis(2-ethylhexyl)phthalate	310		250	100	ug/Kg	05/08/14	KCA	SW 8270	
Carbazole	ND		1800	270	ug/Kg	05/08/14	KCA	SW 8270	
Chrysene	190	J	250	120	ug/Kg	05/08/14	KCA	SW 8270	
Dibenz(a,h)anthracene	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Dibenzofuran	ND		250	100	ug/Kg	05/08/14	KCA	SW 8270	
Diethyl phthalate	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Dimethylphthalate	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-butylphthalate	ND		250	93	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-octylphthalate	ND		250	90	ug/Kg	05/08/14	KCA	SW 8270	
Fluoranthene	370		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Fluorene	ND		250	120	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobenzene	ND		250	100	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobutadiene	ND		250	130	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorocyclopentadiene	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Hexachloroethane	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND		250	120	ug/Kg	05/08/14	KCA	SW 8270	
Isophorone	ND		250	98	ug/Kg	05/08/14	KCA	SW 8270	
Naphthalene	ND		250	100	ug/Kg	05/08/14	KCA	SW 8270	
Nitrobenzene	ND		250	120	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodimethylamine	ND		250	99	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodiphenylamine	ND		250	130	ug/Kg	05/08/14	KCA	SW 8270	
Pentachloronitrobenzene	ND		250	130	ug/Kg	05/08/14	KCA	SW 8270	
Pentachlorophenol	ND		250	130	ug/Kg	05/08/14	KCA	SW 8270	
Phenanthrene	180	J	250	100	ug/Kg	05/08/14	KCA	SW 8270	
Phenol	ND		250	110	ug/Kg	05/08/14	KCA	SW 8270	
Pyrene	320		250	120	ug/Kg	05/08/14	KCA	SW 8270	
Pyridine	ND		250	86	ug/Kg	05/08/14	KCA	SW 8270	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	79				%	05/08/14	KCA	19 - 122 %	
% 2-Fluorobiphenyl	88				%	05/08/14	KCA	30 - 115 %	
% 2-Fluorophenol	77				%	05/08/14	KCA	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B3 0-2

Phoenix I.D.: BG41050

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	83			%	05/08/14	KCA	23 - 120 %
% Phenol-d5	81			%	05/08/14	KCA	24 - 113 %
% Terphenyl-d14	102			%	05/08/14	KCA	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B* = Present in blank, a bias is possible.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41051

Project ID: 87-67 171ST ST
Client ID: B3 10-12

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.34		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Aluminum	6110	*	34	6.8	mg/Kg	05/07/14	LK	SW6010	
Arsenic	2.4		0.7	0.68	mg/Kg	05/07/14	LK	SW6010	
Barium	36.8	*	0.7	0.34	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.27	B	0.27	0.14	mg/Kg	05/07/14	LK	SW6010	
Calcium	1340	*	3.4	3.1	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.31	B*	0.34	0.14	mg/Kg	05/07/14	LK	SW6010	
Cobalt	6.71	*	0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Chromium	18.1		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Copper	25.0		0.34	0.34	mg/kg	05/07/14	LK	SW6010	
Iron	19300		34	34	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.06		0.06	0.04	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	927		7	2.7	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1710	*	3.4	3.4	mg/Kg	05/07/14	LK	SW6010	
Manganese	230	N	3.4	3.4	mg/Kg	05/07/14	LK	SW6010	
Sodium	86	N*	7	2.9	mg/Kg	05/08/14	LK	SW6010	
Nickel	22.7		0.34	0.34	mg/Kg	05/07/14	LK	SW6010	
Lead	22.4	*	0.7	0.34	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.7		1.7	1.7	mg/Kg	05/08/14	LK	SW6010	
Selenium	< 1.4		1.4	1.2	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.4		1.4	1.4	mg/Kg	05/07/14	LK	SW6010	
Vanadium	34.4		0.3	0.34	mg/Kg	05/07/14	LK	SW6010	
Zinc	33.8	N*	0.7	0.34	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	94				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B3 10-12

Phoenix I.D.: BG41051

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	100			%	05/07/14	AW	30 - 150 %
% TCMX	86			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	6.9	6.9	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	170	170	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	112			%	05/08/14	CE	30 - 150 %
% TCMX	91			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	0.86	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	0.75	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	0.52	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.3	1.0	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B3 10-12

Phoenix I.D.: BG41051

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.3	0.75	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.3	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.3	0.58	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.3	0.46	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.3	0.75	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.3	0.70	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.3	0.78	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.3	0.56	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.3	0.83	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.3	0.88	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.3	0.84	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		26	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.3	0.73	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.3	0.61	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		26	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.2	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.0	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.3	0.68	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.3	0.77	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.3	0.65	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.3	0.74	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.3	4.1	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.3	0.85	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.3	0.61	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.3	0.78	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.3	1.2	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.3	0.96	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.3	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.3	0.57	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.3	0.59	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.3	0.66	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.3	0.96	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.3	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.3	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		32	4.6	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.3	JS	5.3	0.86	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.3	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.3	0.96	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.3	0.95	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.3	2.0	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.3	0.76	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.3	0.99	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.3	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.3	0.84	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.7	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.3	0.83	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	9.8	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.3	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.3	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.3	0.82	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.3	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	93			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	116			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	104			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	240	86	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1700	240	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	240	140	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	240	98	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	240	98	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1700	350	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	240	220	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	690	160	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1700	750	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1700	370	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	690	160	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1700	120	ug/Kg	05/08/14	DD	SW 8270	

Project ID: 87-67 171ST ST
Client ID: B3 10-12

Phoenix I.D.: BG41051

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1700	160	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1700	700	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	690	200	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1700	690	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	240	89	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	95	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	240	93	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	96	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1700	260	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	240	92	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	240	89	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	240	99	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	240	99	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	240	85	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	84			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	87			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	80			%	05/08/14	DD	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B3 10-12

Phoenix I.D.: BG41051

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	82			%	05/08/14	DD	23 - 120 %
% Phenol-d5	81			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	91			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41052

Project ID: 87-67 171ST ST
Client ID: B4 0-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.43		0.43	0.43	mg/Kg	05/07/14	LK	SW6010	
Aluminum	21000	*	43	8.6	mg/Kg	05/07/14	LK	SW6010	
Arsenic	3.6		0.9	0.86	mg/Kg	05/07/14	LK	SW6010	
Barium	77.4	*	0.9	0.43	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.60		0.34	0.17	mg/Kg	05/07/14	LK	SW6010	
Calcium	967	*	4.3	4.0	mg/Kg	05/07/14	LK	SW6010	
Cadmium	< 0.43	*	0.43	0.17	mg/Kg	05/07/14	LK	SW6010	
Cobalt	10.5	*	0.43	0.43	mg/Kg	05/07/14	LK	SW6010	
Chromium	30.5		0.43	0.43	mg/Kg	05/07/14	LK	SW6010	
Copper	24.1		0.43	0.43	mg/kg	05/07/14	LK	SW6010	
Iron	24600		43	43	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.07		0.07	0.04	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	1030		9	3.4	mg/Kg	05/08/14	LK	SW6010	
Magnesium	3120	*	4.3	4.3	mg/Kg	05/07/14	LK	SW6010	
Manganese	344	N	4.3	4.3	mg/Kg	05/07/14	LK	SW6010	
Sodium	76	N*	9	3.7	mg/Kg	05/08/14	LK	SW6010	
Nickel	18.0		0.43	0.43	mg/Kg	05/07/14	LK	SW6010	
Lead	15.3	*	0.9	0.43	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 2.2		2.2	2.2	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.7		1.7	1.5	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.7		1.7	1.7	mg/Kg	05/07/14	LK	SW6010	
Vanadium	44.5		0.4	0.43	mg/Kg	05/07/14	LK	SW6010	
Zinc	36.1	N*	0.9	0.43	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	83				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B4 0-2

Phoenix I.D.: BG41052

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	39	39	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	100			%	05/07/14	AW	30 - 150 %
% TCMX	75			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.8	2.8	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.8	2.8	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.8	2.8	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	24	24	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.9	3.9	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	2.0	2.0	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.8	7.8	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	200	200	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	121			%	05/08/14	CE	30 - 150 %
% TCMX	97			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.1	1.0	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	6.1	1.2	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	6.1	0.86	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	6.1	0.60	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	6.1	1.2	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	6.1	1.3	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B4 0-2

Phoenix I.D.: BG41052

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		6.1	1.2	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		300	60	ug/Kg	05/08/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		300	43	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		300	60	ug/Kg	05/08/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		300	43	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		300	81	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dibromoethane	ND		6.1	1.6	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		300	33	ug/Kg	05/08/14	JLI	SW8260	
1,2-Dichloroethane	ND		6.1	0.54	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		6.1	0.86	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		300	40	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		300	45	ug/Kg	05/08/14	JLI	SW8260	
1,3-Dichloropropane	ND		6.1	0.64	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		300	48	ug/Kg	05/08/14	JLI	SW8260	
2,2-Dichloropropane	ND		6.1	1.0	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		300	48	ug/Kg	05/08/14	JLI	SW8260	
2-Hexanone	ND		30	2.7	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		300	42	ug/Kg	05/08/14	JLI	SW8260	1
4-Chlorotoluene	ND		300	35	ug/Kg	05/08/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		30	1.4	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	6.0	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		12	3.4	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		6.1	1.2	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		300	39	ug/Kg	05/08/14	JLI	SW8260	
Bromochloromethane	ND		6.1	0.89	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		6.1	0.75	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		6.1	0.85	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		6.1	4.7	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		6.1	0.99	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		6.1	0.71	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		6.1	0.90	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		6.1	1.4	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		6.1	1.1	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		6.1	3.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		6.1	1.3	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		6.1	0.66	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		6.1	0.68	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		6.1	0.77	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		6.1	1.6	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		6.1	1.1	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		300	63	ug/Kg	05/08/14	JLI	SW8260	
Isopropylbenzene	ND		300	58	ug/Kg	05/08/14	JLI	SW8260	
m&p-Xylene	ND		6.1	2.4	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		37	5.3	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		12	1.7	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.1	JS	6.1	1.0	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		300	81	ug/Kg	05/08/14	JLI	SW8260	
n-Butylbenzene	ND		300	55	ug/Kg	05/08/14	JLI	SW8260	
n-Propylbenzene	ND		300	54	ug/Kg	05/08/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	6.1	2.3	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	300	43	ug/Kg	05/08/14	JLI	SW8260	
sec-Butylbenzene	ND	300	57	ug/Kg	05/08/14	JLI	SW8260	
Styrene	ND	6.1	1.8	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	300	48	ug/Kg	05/08/14	JLI	SW8260	
Tetrachloroethene	ND	6.1	1.3	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	12	5.5	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	6.1	0.96	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	6.1	1.2	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	6.1	1.2	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	600	560	ug/Kg	05/08/14	JLI	SW8260	
Trichloroethene	ND	6.1	1.3	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	6.1	1.4	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	6.1	0.95	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	6.1	2.0	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	104			%	05/08/14	JLI	70 - 121 %	
% Bromofluorobenzene	97			%	05/08/14	JLI	59 - 113 %	
% Dibromofluoromethane	115			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	105			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	140	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	270	210	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	270	140	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	270	97	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	2000	270	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	270	150	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	270	180	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	2000	400	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	270	250	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	270	150	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	780	180	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	2000	850	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	2000	420	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	270	140	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	780	180	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	2000	130	ug/Kg	05/08/14	DD	SW 8270	

Project ID: 87-67 171ST ST
Client ID: B4 0-2

Phoenix I.D.: BG41052

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	2000	180	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	2000	790	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	780	230	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	2000	780	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	270	100	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	2000	300	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	270	100	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	270	100	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	270	140	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	270	120	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	270	140	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	270	150	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	270	150	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	270	150	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	270	110	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	270	130	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	270	96	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	61			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	73			%	05/08/14	DD	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B4 0-2

Phoenix I.D.: BG41052

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	73			%	05/08/14	DD	23 - 120 %
% Phenol-d5	79			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	93			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41053

Project ID: 87-67 171ST ST
Client ID: B4 10-12

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.35		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Aluminum	4190	*	35	7.0	mg/Kg	05/07/14	LK	SW6010	
Arsenic	1.0		0.7	0.70	mg/Kg	05/07/14	LK	SW6010	
Barium	22.4	*	0.7	0.35	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.17	B	0.28	0.14	mg/Kg	05/07/14	LK	SW6010	
Calcium	867	*	3.5	3.2	mg/Kg	05/07/14	LK	SW6010	
Cadmium	< 0.35	*	0.35	0.14	mg/Kg	05/07/14	LK	SW6010	
Cobalt	4.41	*	0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Chromium	12.0		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Copper	11.8		0.35	0.35	mg/kg	05/07/14	LK	SW6010	
Iron	9770		35	35	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.06		0.06	0.04	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	633		7	2.7	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1080	*	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Manganese	242	N	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Sodium	109	N*	7	3.0	mg/Kg	05/08/14	LK	SW6010	
Nickel	9.96		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Lead	2.2	*	0.7	0.35	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.7		1.7	1.7	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.4		1.4	1.2	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.4		1.4	1.4	mg/Kg	05/07/14	LK	SW6010	
Vanadium	15.6		0.3	0.35	mg/Kg	05/07/14	LK	SW6010	
Zinc	11.9	N*	0.7	0.35	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	92				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
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Phoenix I.D.: BG41053

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	100			%	05/07/14	AW	30 - 150 %
% TCMX	76			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.0	7.0	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	103			%	05/08/14	CE	30 - 150 %
% TCMX	98			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	0.76	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	0.53	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B4 10-12

Phoenix I.D.: BG41053

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.4	0.59	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.4	0.47	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.4	0.71	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.4	0.57	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.4	0.90	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		27	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.4	0.74	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		27	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.3	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.0	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.4	0.70	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.4	0.79	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.4	0.67	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.4	0.75	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.4	4.1	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.4	0.87	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.4	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.4	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.4	0.58	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.4	0.60	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.4	0.68	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		32	4.7	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	1.7	JS	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.4	0.97	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.4	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.8	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.4	0.84	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.4	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	95			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	109			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	104			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	250	190	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1800	250	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	170	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1800	360	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	250	220	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	700	170	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1800	770	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1800	380	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	700	160	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1800	120	ug/Kg	05/08/14	DD	SW 8270	

Project ID: 87-67 171ST ST
Client ID: B4 10-12

Phoenix I.D.: BG41053

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1800	160	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	250	98	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1800	710	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	700	210	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1800	700	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	97	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	250	95	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	98	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1800	270	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	250	94	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	250	91	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	250	98	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	250	99	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	250	140	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	250	130	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	250	100	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	250	110	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	250	120	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	250	87	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	71			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	82			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	73			%	05/08/14	DD	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: B4 10-12

Phoenix I.D.: BG41053

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	76			%	05/08/14	DD	23 - 120 %
% Phenol-d5	75			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	96			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41054

Project ID: 87-67 171ST ST
Client ID: B5 0-2

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.35		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Aluminum	9920	*	35	7.0	mg/Kg	05/07/14	LK	SW6010	
Arsenic	2.0		0.7	0.70	mg/Kg	05/07/14	LK	SW6010	
Barium	38.6	*	0.7	0.35	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.32		0.28	0.14	mg/Kg	05/07/14	LK	SW6010	
Calcium	823	*	3.5	3.2	mg/Kg	05/07/14	LK	SW6010	
Cadmium	< 0.35	*	0.35	0.14	mg/Kg	05/07/14	LK	SW6010	
Cobalt	5.74	*	0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Chromium	18.1		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Copper	23.5		0.35	0.35	mg/kg	05/07/14	LK	SW6010	
Iron	16100		35	35	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.08		0.08	0.05	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	966		7	2.7	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1720	*	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Manganese	176	N	3.5	3.5	mg/Kg	05/07/14	LK	SW6010	
Sodium	64	N*	7	3.0	mg/Kg	05/08/14	LK	SW6010	
Nickel	12.5		0.35	0.35	mg/Kg	05/07/14	LK	SW6010	
Lead	17.0	*	0.7	0.35	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.8		1.8	1.8	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.4		1.4	1.2	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.4		1.4	1.4	mg/Kg	05/07/14	LK	SW6010	
Vanadium	27.3		0.4	0.35	mg/Kg	05/07/14	LK	SW6010	
Zinc	27.5	N*	0.7	0.35	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	89				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

Project ID: 87-67 171ST ST
Client ID: B5 0-2

Phoenix I.D.: BG41054

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	36	36	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	96			%	05/07/14	AW	30 - 150 %
% TCMX	76			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.6	2.6	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	22	22	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.6	3.6	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.3	7.3	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	115			%	05/08/14	CE	30 - 150 %
% TCMX	92			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	0.92	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	0.80	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.6	0.55	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260

Project ID: 87-67 171ST ST
Client ID: B5 0-2

Phoenix I.D.: BG41054

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.6	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.6	0.81	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.6	0.62	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.6	0.49	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.6	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.6	0.74	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.6	0.83	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.6	0.60	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.6	0.89	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.6	0.94	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.6	0.90	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		28	2.5	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.6	0.78	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.6	0.65	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		28	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.6	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.2	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.6	0.73	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.6	0.82	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.6	0.70	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.6	0.79	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.6	4.3	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.6	0.91	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.6	0.65	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.6	0.83	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.6	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.6	2.9	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.6	0.61	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.6	0.63	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.6	0.71	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.6	2.2	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		34	4.9	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.6	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	1.9	JS	5.6	0.92	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.6	1.5	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.6	1.0	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.6	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.6	0.81	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.6	1.6	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.6	0.90	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	5.1	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.6	0.89	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.6	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.6	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.6	0.88	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.6	1.8	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	106			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	90			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	114			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	103			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	260	200	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	260	92	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1900	260	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	260	150	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	170	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1900	370	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	260	240	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	260	150	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	740	180	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1900	810	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1900	400	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	740	170	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1900	120	ug/Kg	05/08/14	DD	SW 8270	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1900	170	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1900	750	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	740	220	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1900	740	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	260	96	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1900	280	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	260	99	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	260	96	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	260	100	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	260	140	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	260	140	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	260	140	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	260	110	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	260	120	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	260	130	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	260	91	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	77			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	76			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	76			%	05/08/14	DD	25 - 121 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	78			%	05/08/14	DD	23 - 120 %
% Phenol-d5	79			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	97			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41055

Project ID: 87-67 171ST ST
Client ID: B5 10-12

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.38		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Aluminum	3570	*	38	7.6	mg/Kg	05/07/14	LK	SW6010	
Arsenic	0.8		0.8	0.76	mg/Kg	05/07/14	LK	SW6010	
Barium	24.8	*	0.8	0.38	mg/Kg	05/07/14	LK	SW6010	
Beryllium	< 0.30		0.30	0.15	mg/Kg	05/07/14	LK	SW6010	
Calcium	848	*	3.8	3.5	mg/Kg	05/07/14	LK	SW6010	
Cadmium	< 0.38	*	0.38	0.15	mg/Kg	05/07/14	LK	SW6010	
Cobalt	3.98	*	0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Chromium	8.81		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Copper	11.1		0.38	0.38	mg/kg	05/07/14	LK	SW6010	
Iron	9470		38	38	mg/Kg	05/07/14	LK	SW6010	
Mercury	< 0.07		0.07	0.04	mg/Kg	05/07/14	RS	SW-7471	B
Potassium	561		8	3.0	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1030	*	3.8	3.8	mg/Kg	05/07/14	LK	SW6010	
Manganese	214	N	3.8	3.8	mg/Kg	05/07/14	LK	SW6010	
Sodium	84	N*	8	3.3	mg/Kg	05/08/14	LK	SW6010	
Nickel	8.39		0.38	0.38	mg/Kg	05/07/14	LK	SW6010	
Lead	1.8	*	0.8	0.38	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.9		1.9	1.9	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.5		1.5	1.3	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.5		1.5	1.5	mg/Kg	05/07/14	LK	SW6010	
Vanadium	14.1		0.4	0.38	mg/Kg	05/07/14	LK	SW6010	
Zinc	10.8	N*	0.8	0.38	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	94				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

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Phoenix I.D.: BG41055

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	35	35	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	103			%	05/07/14	AW	30 - 150 %
% TCMX	76			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.5	3.5	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.8	1.8	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	7.0	7.0	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	180	180	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	121			%	05/08/14	CE	30 - 150 %
% TCMX	105			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	0.76	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	0.53	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260

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Phoenix I.D.: BG41055

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.4	0.59	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.4	0.47	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.4	0.76	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.4	0.71	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.4	0.57	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.4	0.90	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		27	2.4	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.4	0.74	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		27	1.3	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.3	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		11	3.0	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.4	0.70	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.4	0.78	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.4	0.67	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.4	0.75	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.4	4.1	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.4	0.87	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.4	0.62	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.4	0.80	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.4	1.3	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.4	2.8	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.4	0.58	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.4	0.60	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.4	0.68	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		32	4.7	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		11	1.5	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	2.0	JS	5.4	0.88	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.4	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.4	0.98	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.4	0.97	ug/Kg	05/07/14	JLI	SW8260	

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.4	2.1	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.4	0.77	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.4	1.0	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.4	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.4	0.86	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	4.8	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.4	0.85	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	10	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.4	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.4	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.4	0.84	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.4	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	108			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	94			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	113			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	104			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
1,2-Dichlorobenzene	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	05/08/14	DD	SW 8270	
2,4,6-Trichlorophenol	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dichlorophenol	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dimethylphenol	ND	240	85	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrophenol	ND	1700	240	ug/Kg	05/08/14	DD	SW 8270	
2,4-Dinitrotoluene	ND	240	140	ug/Kg	05/08/14	DD	SW 8270	
2,6-Dinitrotoluene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
2-Chloronaphthalene	ND	240	98	ug/Kg	05/08/14	DD	SW 8270	
2-Chlorophenol	ND	240	98	ug/Kg	05/08/14	DD	SW 8270	
2-Methylnaphthalene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	05/08/14	DD	SW 8270	
2-Nitroaniline	ND	1700	350	ug/Kg	05/08/14	DD	SW 8270	
2-Nitrophenol	ND	240	220	ug/Kg	05/08/14	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	05/08/14	DD	SW 8270	1
3,3'-Dichlorobenzidine	ND	690	160	ug/Kg	05/08/14	DD	SW 8270	
3-Nitroaniline	ND	1700	750	ug/Kg	05/08/14	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1700	370	ug/Kg	05/08/14	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
4-Chloroaniline	ND	690	160	ug/Kg	05/08/14	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
4-Nitroaniline	ND	1700	110	ug/Kg	05/08/14	DD	SW 8270	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1700	160	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Acenaphthylene	ND	240	96	ug/Kg	05/08/14	DD	SW 8270	
Acetophenone	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Aniline	ND	1700	690	ug/Kg	05/08/14	DD	SW 8270	
Anthracene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benz(a)anthracene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Benzidine	ND	690	200	ug/Kg	05/08/14	DD	SW 8270	
Benzo(a)pyrene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Benzo(ghi)perylene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Benzoic acid	ND	1700	690	ug/Kg	05/08/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	240	89	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	95	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	240	93	ug/Kg	05/08/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	96	ug/Kg	05/08/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	99	ug/Kg	05/08/14	DD	SW 8270	
Carbazole	ND	1700	260	ug/Kg	05/08/14	DD	SW 8270	
Chrysene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Dibenzofuran	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Diethyl phthalate	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Dimethylphthalate	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Di-n-butylphthalate	ND	240	92	ug/Kg	05/08/14	DD	SW 8270	
Di-n-octylphthalate	ND	240	89	ug/Kg	05/08/14	DD	SW 8270	
Fluoranthene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Fluorene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobenzene	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorobutadiene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Hexachloroethane	ND	240	100	ug/Kg	05/08/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Isophorone	ND	240	96	ug/Kg	05/08/14	DD	SW 8270	
Naphthalene	ND	240	99	ug/Kg	05/08/14	DD	SW 8270	
Nitrobenzene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	240	97	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachloronitrobenzene	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Pentachlorophenol	ND	240	130	ug/Kg	05/08/14	DD	SW 8270	
Phenanthrene	ND	240	98	ug/Kg	05/08/14	DD	SW 8270	
Phenol	ND	240	110	ug/Kg	05/08/14	DD	SW 8270	
Pyrene	ND	240	120	ug/Kg	05/08/14	DD	SW 8270	
Pyridine	ND	240	85	ug/Kg	05/08/14	DD	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	73			%	05/08/14	DD	19 - 122 %	
% 2-Fluorobiphenyl	82			%	05/08/14	DD	30 - 115 %	
% 2-Fluorophenol	75			%	05/08/14	DD	25 - 121 %	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	76			%	05/08/14	DD	23 - 120 %
% Phenol-d5	76			%	05/08/14	DD	24 - 113 %
% Terphenyl-d14	89			%	05/08/14	DD	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 13, 2014

FOR: Attn: Mr. Charles B. Sosik, P.G.
Environmental Business Consultants
1808 Middle Country Rd
Ridge NY 11961-2406

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/05/14	0:00
Location Code:	EBC	Received by:	SW	05/06/14	16:23
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	VC1 1401				

Laboratory Data

SDG ID: GBG41046
Phoenix ID: BG41056

Project ID: 87-67 171ST ST
Client ID: SOIL DUPLICATE 1

Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
Silver	< 0.33		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Aluminum	6760	*	33	6.6	mg/Kg	05/07/14	LK	SW6010	
Arsenic	1.6		0.7	0.66	mg/Kg	05/07/14	LK	SW6010	
Barium	36.5	*	0.7	0.33	mg/Kg	05/07/14	LK	SW6010	
Beryllium	0.23	B	0.26	0.13	mg/Kg	05/07/14	LK	SW6010	
Calcium	1800	*	3.3	3.0	mg/Kg	05/07/14	LK	SW6010	
Cadmium	0.23	B*	0.33	0.13	mg/Kg	05/07/14	LK	SW6010	
Cobalt	6.03	*	0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Chromium	22.6		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Copper	24.3		0.33	0.33	mg/kg	05/07/14	LK	SW6010	
Iron	16200		33	33	mg/Kg	05/07/14	LK	SW6010	
Mercury	0.14		0.07	0.04	mg/Kg	05/07/14	RS	SW-7471	B*
Potassium	785		7	2.6	mg/Kg	05/08/14	LK	SW6010	
Magnesium	1680	*	3.3	3.3	mg/Kg	05/07/14	LK	SW6010	
Manganese	213	N	3.3	3.3	mg/Kg	05/07/14	LK	SW6010	
Sodium	231	N*	7	2.8	mg/Kg	05/08/14	LK	SW6010	
Nickel	20.0		0.33	0.33	mg/Kg	05/07/14	LK	SW6010	
Lead	27.8	*	0.7	0.33	mg/Kg	05/07/14	LK	SW6010	
Antimony	< 1.6		1.6	1.6	mg/Kg	05/07/14	LK	SW6010	
Selenium	< 1.3		1.3	1.1	mg/Kg	05/07/14	LK	SW6010	
Thallium	< 1.3		1.3	1.3	mg/Kg	05/07/14	LK	SW6010	
Vanadium	30.9		0.3	0.33	mg/Kg	05/07/14	LK	SW6010	
Zinc	29.6	N*	0.7	0.33	mg/Kg	05/08/14	LK	SW6010	B
Percent Solid	94				%	05/06/14	I	E160.3	
Soil Extraction for PCB	Completed					05/06/14	BB/V	SW3545	
Soil Extraction for Pesticide	Completed					05/06/14	BB	SW3545	
Soil Extraction for SVOA	Completed					05/06/14	BJ/FV	SW3545	
Mercury Digestion	Completed					05/07/14	I/W	SW7471	B

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Phoenix I.D.: BG41056

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
Total Metals Digest	Completed				05/06/14	CB/AG	SW846 - 3050
Polychlorinated Biphenyls							
PCB-1016	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1221	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1232	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1242	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1248	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1254	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1260	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1262	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
PCB-1268	ND	34	34	ug/Kg	05/07/14	AW	SW 8082
QA/QC Surrogates							
% DCBP	101			%	05/07/14	AW	30 - 150 %
% TCMX	75			%	05/07/14	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDE	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
4,4' -DDT	ND	2.5	2.5	ug/Kg	05/08/14	CE	SW8081
a-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
a-Chlordane	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Aldrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
b-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Chlordane	ND	21	21	ug/Kg	05/08/14	CE	SW8081
d-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Dieldrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Endosulfan I	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Endosulfan II	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Endosulfan sulfate	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Endrin	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Endrin aldehyde	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Endrin ketone	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
g-BHC	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
g-Chlordane	ND	3.4	3.4	ug/Kg	05/08/14	CE	SW8081
Heptachlor	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Heptachlor epoxide	ND	1.7	1.7	ug/Kg	05/08/14	CE	SW8081
Methoxychlor	ND	6.9	6.9	ug/Kg	05/08/14	CE	SW8081
Toxaphene	ND	170	170	ug/Kg	05/08/14	CE	SW8081
QA/QC Surrogates							
% DCBP	111			%	05/08/14	CE	30 - 150 %
% TCMX	93			%	05/08/14	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	0.85	ug/Kg	05/07/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.2	1.0	ug/Kg	05/07/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.2	0.74	ug/Kg	05/07/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.2	0.51	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethane	ND	5.2	1.0	ug/Kg	05/07/14	JLI	SW8260
1,1-Dichloroethene	ND	5.2	1.1	ug/Kg	05/07/14	JLI	SW8260

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Parameter	Result		RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND		5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND		5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,3-Trichloropropane	ND		5.2	0.74	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND		5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND		5.2	0.75	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND		5.2	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dibromoethane	ND		5.2	1.4	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichlorobenzene	ND		5.2	0.57	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloroethane	ND		5.2	0.46	ug/Kg	05/07/14	JLI	SW8260	
1,2-Dichloropropane	ND		5.2	0.74	ug/Kg	05/07/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND		5.2	0.69	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichlorobenzene	ND		5.2	0.77	ug/Kg	05/07/14	JLI	SW8260	
1,3-Dichloropropane	ND		5.2	0.55	ug/Kg	05/07/14	JLI	SW8260	
1,4-Dichlorobenzene	ND		5.2	0.82	ug/Kg	05/07/14	JLI	SW8260	
2,2-Dichloropropane	ND		5.2	0.88	ug/Kg	05/07/14	JLI	SW8260	
2-Chlorotoluene	ND		5.2	0.83	ug/Kg	05/07/14	JLI	SW8260	
2-Hexanone	ND		26	2.3	ug/Kg	05/07/14	JLI	SW8260	
2-Isopropyltoluene	ND		5.2	0.72	ug/Kg	05/07/14	JLI	SW8260	1
4-Chlorotoluene	ND		5.2	0.60	ug/Kg	05/07/14	JLI	SW8260	
4-Methyl-2-pentanone	ND		26	1.2	ug/Kg	05/07/14	JLI	SW8260	
Acetone	ND		50	5.2	ug/Kg	05/07/14	JLI	SW8260	
Acrylonitrile	ND		10	2.9	ug/Kg	05/07/14	JLI	SW8260	
Benzene	ND		5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
Bromobenzene	ND		5.2	0.68	ug/Kg	05/07/14	JLI	SW8260	
Bromochloromethane	ND		5.2	0.76	ug/Kg	05/07/14	JLI	SW8260	
Bromodichloromethane	ND		5.2	0.65	ug/Kg	05/07/14	JLI	SW8260	
Bromoform	ND		5.2	0.73	ug/Kg	05/07/14	JLI	SW8260	
Bromomethane	ND		5.2	4.0	ug/Kg	05/07/14	JLI	SW8260	
Carbon Disulfide	ND		5.2	0.84	ug/Kg	05/07/14	JLI	SW8260	
Carbon tetrachloride	ND		5.2	0.60	ug/Kg	05/07/14	JLI	SW8260	
Chlorobenzene	ND		5.2	0.77	ug/Kg	05/07/14	JLI	SW8260	
Chloroethane	ND		5.2	1.2	ug/Kg	05/07/14	JLI	SW8260	
Chloroform	ND		5.2	0.95	ug/Kg	05/07/14	JLI	SW8260	
Chloromethane	ND		5.2	2.7	ug/Kg	05/07/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND		5.2	1.1	ug/Kg	05/07/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND		5.2	0.56	ug/Kg	05/07/14	JLI	SW8260	
Dibromochloromethane	ND		5.2	0.58	ug/Kg	05/07/14	JLI	SW8260	
Dibromomethane	ND		5.2	0.66	ug/Kg	05/07/14	JLI	SW8260	
Dichlorodifluoromethane	ND		5.2	1.4	ug/Kg	05/07/14	JLI	SW8260	
Ethylbenzene	ND		5.2	0.95	ug/Kg	05/07/14	JLI	SW8260	
Hexachlorobutadiene	ND		5.2	1.1	ug/Kg	05/07/14	JLI	SW8260	
Isopropylbenzene	ND		5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
m&p-Xylene	ND		5.2	2.1	ug/Kg	05/07/14	JLI	SW8260	
Methyl Ethyl Ketone	ND		31	4.5	ug/Kg	05/07/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND		10	1.4	ug/Kg	05/07/14	JLI	SW8260	
Methylene chloride	1.9	JS	5.2	0.85	ug/Kg	05/07/14	JLI	SW8260	
Naphthalene	ND		5.2	1.4	ug/Kg	05/07/14	JLI	SW8260	
n-Butylbenzene	ND		5.2	0.95	ug/Kg	05/07/14	JLI	SW8260	
n-Propylbenzene	ND		5.2	0.94	ug/Kg	05/07/14	JLI	SW8260	

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Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.2	2.0	ug/Kg	05/07/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.2	0.75	ug/Kg	05/07/14	JLI	SW8260	
sec-Butylbenzene	ND	5.2	0.98	ug/Kg	05/07/14	JLI	SW8260	
Styrene	ND	5.2	1.5	ug/Kg	05/07/14	JLI	SW8260	
tert-Butylbenzene	ND	5.2	0.83	ug/Kg	05/07/14	JLI	SW8260	
Tetrachloroethene	ND	5.2	1.1	ug/Kg	05/07/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	10	4.7	ug/Kg	05/07/14	JLI	SW8260	1
Toluene	ND	5.2	0.82	ug/Kg	05/07/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.2	1.0	ug/Kg	05/07/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.2	1.1	ug/Kg	05/07/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	10	9.7	ug/Kg	05/07/14	JLI	SW8260	
Trichloroethene	ND	5.2	1.1	ug/Kg	05/07/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.2	1.2	ug/Kg	05/07/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.2	0.81	ug/Kg	05/07/14	JLI	SW8260	
Vinyl chloride	ND	5.2	1.7	ug/Kg	05/07/14	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	110			%	05/07/14	JLI	70 - 121 %	
% Bromofluorobenzene	95			%	05/07/14	JLI	59 - 113 %	
% Dibromofluoromethane	117			%	05/07/14	JLI	70 - 130 %	
% Toluene-d8	103			%	05/07/14	JLI	84 - 138 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
1,2,4-Trichlorobenzene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Dichlorobenzene	ND	240	98	ug/Kg	05/08/14	KCA	SW 8270	
1,2-Diphenylhydrazine	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
1,3-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
1,4-Dichlorobenzene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
2,4,5-Trichlorophenol	ND	240	190	ug/Kg	05/08/14	KCA	SW 8270	
2,4,6-Trichlorophenol	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dichlorophenol	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dimethylphenol	ND	240	86	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrophenol	ND	1700	240	ug/Kg	05/08/14	KCA	SW 8270	
2,4-Dinitrotoluene	ND	240	140	ug/Kg	05/08/14	KCA	SW 8270	
2,6-Dinitrotoluene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
2-Chloronaphthalene	ND	240	99	ug/Kg	05/08/14	KCA	SW 8270	
2-Chlorophenol	ND	240	99	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylnaphthalene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
2-Methylphenol (o-cresol)	ND	240	160	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitroaniline	ND	1700	350	ug/Kg	05/08/14	KCA	SW 8270	
2-Nitrophenol	ND	240	220	ug/Kg	05/08/14	KCA	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	240	140	ug/Kg	05/08/14	KCA	SW 8270	1
3,3'-Dichlorobenzidine	ND	700	160	ug/Kg	05/08/14	KCA	SW 8270	
3-Nitroaniline	ND	1700	760	ug/Kg	05/08/14	KCA	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1700	380	ug/Kg	05/08/14	KCA	SW 8270	
4-Bromophenyl phenyl ether	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloro-3-methylphenol	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
4-Chloroaniline	ND	700	160	ug/Kg	05/08/14	KCA	SW 8270	
4-Chlorophenyl phenyl ether	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
4-Nitroaniline	ND	1700	120	ug/Kg	05/08/14	KCA	SW 8270	

Project ID: 87-67 171ST ST
Client ID: SOIL DUPLICATE 1

Phoenix I.D.: BG41056

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1700	160	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Acenaphthylene	ND	240	98	ug/Kg	05/08/14	KCA	SW 8270	
Acetophenone	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Aniline	ND	1700	700	ug/Kg	05/08/14	KCA	SW 8270	
Anthracene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Benz(a)anthracene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzidine	ND	700	200	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(a)pyrene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(b)fluoranthene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(ghi)perylene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Benzo(k)fluoranthene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Benzoic acid	ND	1700	700	ug/Kg	05/08/14	KCA	SW 8270	1
Benzyl butyl phthalate	ND	240	90	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	96	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroethyl)ether	ND	240	94	ug/Kg	05/08/14	KCA	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	97	ug/Kg	05/08/14	KCA	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Carbazole	ND	1700	260	ug/Kg	05/08/14	KCA	SW 8270	
Chrysene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Dibenz(a,h)anthracene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Dibenzofuran	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Diethyl phthalate	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Dimethylphthalate	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-butylphthalate	ND	240	93	ug/Kg	05/08/14	KCA	SW 8270	
Di-n-octylphthalate	ND	240	90	ug/Kg	05/08/14	KCA	SW 8270	
Fluoranthene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Fluorene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobenzene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorobutadiene	ND	240	130	ug/Kg	05/08/14	KCA	SW 8270	
Hexachlorocyclopentadiene	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Hexachloroethane	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Isophorone	ND	240	98	ug/Kg	05/08/14	KCA	SW 8270	
Naphthalene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Nitrobenzene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodimethylamine	ND	240	98	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
N-Nitrosodiphenylamine	ND	240	130	ug/Kg	05/08/14	KCA	SW 8270	
Pentachloronitrobenzene	ND	240	130	ug/Kg	05/08/14	KCA	SW 8270	
Pentachlorophenol	ND	240	130	ug/Kg	05/08/14	KCA	SW 8270	
Phenanthrene	ND	240	100	ug/Kg	05/08/14	KCA	SW 8270	
Phenol	ND	240	110	ug/Kg	05/08/14	KCA	SW 8270	
Pyrene	ND	240	120	ug/Kg	05/08/14	KCA	SW 8270	
Pyridine	ND	240	86	ug/Kg	05/08/14	KCA	SW 8270	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	38			%	05/08/14	KCA	19 - 122 %	
% 2-Fluorobiphenyl	44			%	05/08/14	KCA	30 - 115 %	
% 2-Fluorophenol	40			%	05/08/14	KCA	25 - 121 %	

Project ID: 87-67 171ST ST
Client ID: SOIL DUPLICATE 1

Phoenix I.D.: BG41056

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	41			%	05/08/14	KCA	23 - 120 %
% Phenol-d5	42			%	05/08/14	KCA	24 - 113 %
% Terphenyl-d14	52			%	05/08/14	KCA	18 - 137 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B* = Present in blank, a bias is possible.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Sample Criteria Exceedences Report

GBG41046 - EBC

Criteria: NY: 375, 375RRS, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG41046	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	84.3	0.8	63	63	mg/Kg
BG41046	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	128	0.8	109	109	mg/Kg
BG41048	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1200	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1400	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1400	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	270	1000	1000	ug/Kg
BG41048	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	660	270	500	500	ug/Kg
BG41048	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	660	270	500	500	ug/Kg
BG41048	$8270SMRDP	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	660	270	500	500	ug/Kg
BG41048	$PESTSMDPR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.2	2.7	3.3	3.3	ug/Kg
BG41048	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.28	0.08	0.18	0.18	mg/Kg
BG41048	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential	1090	7.1	400	400	mg/Kg
BG41048	PB-SMDP	Lead	NY / 375-6.8 Metals / Residential Restricted	1090	7.1	400	400	mg/Kg
BG41048	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1090	7.1	63	63	mg/Kg
BG41048	ZN-SMDP	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	380	7.1	109	109	mg/Kg
BG41050	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.65	0.08	0.18	0.18	mg/Kg
BG41050	PB-SMDP	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	111	0.6	63	63	mg/Kg
BG41052	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	30.5	0.43	30		mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

May 13, 2014

SDG I.D.: GBG41046

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Temp 4 Pg 1 of 1

Data Delivery:
- [ ] Fax #:
- [x] Email: cmiller@~~ebcengine~~.ebcincny.com csosik@ebcincny.com

Customer: EBC
Address: 1808 Middle Country Road Ridge, NY

Project: 87-67 171st Street
Report to: EBC
Invoice to: EBC

Project P.O: VCI 1401
Phone #: 631 504 6000
Fax #: 631 924 2870

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5.5.14

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	SVOCs 8270	Pesticides/PCBs 8081/8082	TAL Metals	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41046	B1 0-2	S	5.5.14		X	X	X	X			1	1						
41047	B1 10-12																	
41048	B2 0-2																	
41049	B2 10-12																	
41050	B3 0-2																	
41051	B3 10-12																	
41052	B4 0-2																	
41053	B4 10-12																	
41054	B5 0-2																	
41055	B5 10-12																	
41056	Soil Duplicate 1																	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-6-14	7:45
[signature]	[signature]	5-6-14	16:23

Comments, Special Requirements or Regulations:

Turnaround:
- [ ] 1 Day*
- [ ] 2 Days*
- [ ] 3 Days*
- [x] 5 Days
- [ ] 10 Days
- [ ] Other

* SURCHARGE APPLIES

NJ
- [ ] Res. Criteria
- [ ] Non-Res. Criteria
- [ ] Impact to GW Soil Cleanup Criteria
- [ ] GW Criteria

NY
- [ ] TOGS GA GW
- [ ] CP-51 Soil
- [x] NY375 Unrestricted Soil
- [x] NY375 Residential Soil
- [x] NY375 Restricted Non-Residential Soil

Data Format
- [ ] Phoenix Std Report
- [x] Excel
- [x] PDF
- [ ] GIS/Key
- [x] EQuIS
- [ ] NJ Hazsite EDD
- [x] NY EZ EDD (ASP)
- [ ] Other

Data Package
- [ ] NJ Reduced Deliv. *
- [x] NY Enhanced (ASP B) *
- [ ] Other

State where samples were collected: NY