Remedial Investigation Report

75 Eckford Street LLC

75 Eckford Street, Brooklyn, NY 11222

Block 2698, Lot 25

OER Project Number 14EHAZ403K

E-Designation E-138

CEQR Number 04DCP003K

Greenpoint-Williamsburg Rezoning

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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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 VCP	New York City Voluntary 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, Ray Kahn, 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 75 Eckford Street (NYC OER Site No. 14EHAZ403K). 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.

_____Ray Kahn_____ _____

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 75 Eckford Street in the Greenpoint section in Brooklyn, New York and is identified as Block 2698 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 1,937-square feet and is bounded by Driggs Avenue to the north, with several garages, a three story hotel and apartment buildings, Engert Avenue to the south with a two story office building and warehouse, Eckford Street to the east with 6 story apartment building and retail shops , and Leonard Street to the west with three story residences, offices and retailers. A map of the site boundary is shown in Figure 1. Currently, the Site is used for an auto repair shop and contains a one story building, built to the property lines.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of four-story residential building, with the first floor used for retail, a cellar used for mechanical and storage and a rear yard. Layout of the proposed site development is presented in Figure 2.1 and 2.2. The current zoning designation is M1-2/R6 which is a manufacturing/residential zoning area. The proposed use is consistent with existing zoning for the property.

The existing one story building will be partially demolished and a four story building with a penthouse and cellar is to be constructed. The cellar will be approximately 10 feet below grade and the overall building height will be approximately 50 feet. The proposed cellar will be used to house the building's utilities and storage space. The proposed redevelopment plans are included in Figure 1. The excavation of the site is required in order to create the cellar area. The excavation is not anticipated to go below the water table, since the water table is approximately 12 feet below grade. As part of development, the referenced lot is expected to remain the same without being sub-divided or merged.

Summary of Past Uses of Site and Areas of Concern

Based on the available Sanborn Maps dated from 2007 to 1887, the Site was developed after **to 1887 for use as sash storage in 1905. From at least 1942 to 1951, the site was a poultry** market. The Site was developed as a Welding and Auto Repair from 1965 to present. In December of 2013 75 Eckford LLC was deeded the subject site from Oswald Sibblies. In August of 2000 the site was deed to Oswald Sibblies from Mayden Realty and Construction Corp.

The areas of concern were identified as follows:

Area	Location	Rationale
Area A	West side of the entrance to the garage area	Visual surface staining of chemical/petroleum Multiple floor drains within the area GPR indication of the potential subsurface obstruction
Area B	East side of the demising wall separating the repair area from the storage area in the far back side of the garage	Visual surface staining of chemical/petroleum Floor drains Automobile lift posts
Area C	West side of the demising wall used as a storage area	Visual surface staining of chemical/petroleum Multiple Floor drains

Phase 1 Report is presented in Appendix A. A map showing areas of concern is presented in Figure 3.

Summary of the Work Performed under the Remedial Investigation

ESPL performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 5 soil borings across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;

3. Installed 2 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 2 groundwater samples for chemical analysis to evaluate groundwater quality;

4. Installed 5 soil vapor probes around Site perimeter and collected 5 samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property ranges from 15 to 20 feet.

2. Depth to groundwater ranges from 11.5 to 12.5 feet at the Site.

3. Groundwater flow is generally from northwest to the East River beneath the Site.

4. Soil samples collected during remedial investigation were compared to the 6NYCRR Part 375-6.8 Track 1 (Unrestricted Use SCOs) and Track 2 (Restricted Residential SCOs). Soil/fill samples showed no PCBs at detectable concentrations. Three VOCs were detected above Unrestricted and Restricted Residential SCOs including sec-butylbenzene (max. concentration 50,000 ppb), tert-butylbenzene (max. concentration 15,000 ppb), and trichloroethene (max. concentration 1,800 ppb). Five SVOCs were detected above Unrestricted and Restricted Residential SCOs in one sample collected from areas of where surface staining was observed. These SVOCs were all PAH compounds including benzo(a)anthracene (max. concentration 2,200 ppb), benzo(a)pyrene (max. concentration 1,800 ppb), benzo(a)fluoranthene (max. concentration 2,500 ppb), benzo(k)fluoranthene (max. concentration 1,100 ppb), chrysene (max. concentration 1,300 ppb) and Indeno(1,2,3-cd)pyrene) (max. concentration 830 ppb). Metals including copper (max. concentration 462 ppm), mercury (max. concentration 31.7 ppm), barium (max. concentration 1,080 ppm), arsenic (max. concentration 199 ppm), cadmium (max. concentration 4,940 ppm), zinc (max. concentration 2,360 ppm) and lead (max. concentration 1,560 ppm) exceeded their respective Restricted Residential SCOs. 4,4' –DDT (max. concentration 12 ppb), exceeded UUSCOs in one deep sample, well below its RRSCOs.

5. Groundwater samples collected during the RI were compared to NYSDEC Part 703.5 Groundwater Quality Standards (GQS). Groundwater results showed no SVOCs, or

pesticides at detectable concentrations. Several VOCs were detected above their GQS and included 4-chlorotoluene (max. of 22 ug/L), isopropylbenzene (max. of 6.1 ug/L), n-butylbenzene (max. of 6.8 ug/L), sec- butylbenzene (max. of 29 ug/L), and tert-butylbenzene (max. of 13 ug/L). Several metals were identified, but only aluminum, arsenic (max. of 0.039 ug/L), manganese, magnesium, sodium, and iron exceeded their respective GQSs. One PCB, PCB-1260 (0.3 ppm), was detected above its GQS, The RI indicates that groundwater has been impacted by site conditions.

6. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. Most compounds were detected at concentrations less than 25 ug/m^3, except for acetone, that was detected at 167 ug/m^3. Chlorinated PCE was identified in two vapor samples at a maximum concentration of 92.2 ug/m^{3}TCE exceeded the NYSDOH Guidance Value, with a maximum value of 66 ug/m^3. Carbon tetrachloride was detected below guidance values, and 111-TCA was not detected. BTEX compounds were found throughout the Site, with the highest concentration at 41.8 ug/m^3.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

75 Eckford Street LLC has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.05-acre site located at 75 Eckford Street in Greenpoint section of Brooklyn, New York. Mixed commercial residential use is proposed for the property. The RI work was performed between March 5, 2014 and March 7, 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 75 Eckford Street in the Greenpoint section in Brooklyn, New York and is identified as Block 2698 and Lot 25 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 1,937-square feet and is bounded by Driggs Avenue, to the north, Engert Avenue to the south, Eckford Street, to the east, and Leonard Street to the west. A map of the site boundary is shown in Figure 1. Currently, the Site is used for an auto repair shop and contains a one story building, built to the property lines.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of four-story residential building, with the first floor used for retail, a cellar used for mechanical and storage and a rear yard. Layout of the proposed site development is presented in Figure 2.1 and 2.2. The current zoning designation is M1-2/R6 which is a manufacturing/residential zoning area. The proposed use is consistent with existing zoning for the property.

The existing one story building will be partially demolished and a four story building with a penthouse and cellar is to be constructed. The cellar will be approximately 10 feet below grade and the overall building height will be approximately 50 feet. The proposed cellar will be used to house the building's utilities and storage space. The proposed redevelopment plans are included in Figure 1. The excavation of the site is required in order to create the cellar area. The

excavation is not anticipated to go below the water table, since the water table is approximately 12 feet below grade. As part of development, the referenced lot is expected to remain the same without being sub-divided or merged.

1.3 Description of Surrounding Property

The surrounding area is a mix of garages and residential buildings to the north, office and warehouses to the south, residences, offices and retail to the west and offices and restaurants to the east of the site.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Based on the available Sanborn Maps dated from 2007 to 1887, the Site was developed after to 1887 for use as sash storage in 1905. From at least 1942 to 1951, the site was a poultry market. The Site was developed as a Welding and Auto Repair from 1965 to present. In December of 2013 75 Eckford LLC was deeded the subject site from Oswald Sibblies. In August of 2000 the site was deed to Oswald Sibblies from Mayden Realty and Construction Corp.

2.2 Previous Investigations

Previous investigations performed at the Site include the following:

MIB Environmental Consulting prepared a Phase I ESA for the subject site, dated August 6, 2013. During the site investigation it was noted that hydrocarbon spills were evident on the concrete slabs in the building. Additionally, two waste oil storage tanks were located underneath the stairway to the mezzanine. A Phase II was recommended based on the findings of the Phase I ESA.

A Phase II Sub Surface Investigation was prepared by MIB Environmental Consulting dated July 25, 2013. Four (4) soil borings were advanced to a depth of 10 feet . Groundwater was encountered, at 11.5 to 12 feet, and samples were obtained from boring S-4 (W-3) and boring S-6 (W-5). One sample from each boring was collected and analyzed for volatile organic compounds (VOCs), USEPA Method 8260, semi-volatile organic compounds (SVOCs), USEPA Method 8270, pesticides and PCBs USEPA Method 8081 and 8082, 8 RCRA metals USEPA Method 7471. The Phase II sampling analysis indicated that the soil nor the groundwater exceeded the NYSDEC – Allowable Cleanup Limits.

2.3 Site Inspection

The visual inspection of the subject site revealed evidence of chemical/petroleum staining within several areas of the shop. Based on the finding of the Phase I ESA, Sanborn maps, and the joint site inspection with the office of OER the areas of concern were identified. Using the site background and the neighboring sites, the number of soil, groundwater and soil vapor

samples were identified. Using the GPR survey, the final location of the samples was adjusted to the target area.

2.4 Areas of Concern

The areas of concern were identified as follows:

Area	Location	Rationale
Area A	West side of the entrance to the garage area	Visual surface staining of chemical/petroleum Multiple floor drains within the area GPR indication of the potential subsurface obstruction
Area B	East side of the demising wall separating the repair area from the storage area in the far back side of the garage	Visual surface staining of chemical/petroleum Floor drains Automobile lift posts
Area C	West side of the demising wall used as a storage area	Visual surface staining of chemical/petroleum Multiple Floor drains

Phase 1 Report is presented in Appendix A. A map showing areas of concern is presented in Figure 3.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Ray Kahn, P.E.

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.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

ESPL performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed 5 soil borings across the entire project Site, and collected 10 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 2 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 2 groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed 5 soil vapor probes around Site perimeter and collected 5 samples for chemical analysis.

4.1 Geophysical Investigation

An inspection and ground penetration radar survey of the site was conducted by Atlantic Leak Detection, on March 5, 2014. The GPR survey focused on determining if any subsurface anomalies indicative of USTs or structure were located beneath the subject site. The GPR survey was performed using a US Radar with 500 megahertz shielded antenna. The survey was also used to clear all sampling locations of any potential subsurface anomaly within the subject site. The survey was not done inside the office area. The GPR operator wheeled the unit within the entire shop area. The GPR survey identified subsurface anomalies in the area near the front bathroom and office where the soil boring (SB-1 and MW-1) was placed and investigated. No other subsurface anomalies were identified at the site besides the drainage piping under slab. However, it is important to note that concrete slab may significantly diminish the GPR signals which can result in no anomalies.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Soil borings were installed utilizing a Geoprobe® direct-push drill rig outfitted with a macro-core sampler and dedicated acetate liners. Soils were collected continuously from ground surface

to 20 feet bgs. Soils were field-screened for the presence of VOCs using a PID and were visually inspected for evidence of contamination. No elevated PID readings or visual/ olfactory evidence of contamination were identified. Drilling equipment (i.e., split spoon samplers, rods, etc.) and non-dedicated sampling equipment was thoroughly washed with Alconox and water, using a brush to remove particulate matter or surface film, followed by a thorough rinsing with tap water, followed by a distilled water rinse and allowed to air dry before commencement of drilling activities and between boring locations and sampling intervals. Soil samples at each boring location were collected in 4' intervals from grade to final termination depth of each boring. Boring logs were prepared by a geotechnical engineer and are attached in Appendix D. A map showing the location of soil borings and monitor wells is shown in Figure 4.

Groundwater Monitoring Well Construction

Permanent 1-inch diameter monitoring wells with 5-feet of screens deployed from 18 to 19 feet bgs were installed at the locations shown as MW-1 and MW-2 in Figure 4, and the casings extended from the screen to grade. Sand pack was installed in the annular space from about one foot below the bottom of the monitoring well to approximately one to three feet above the top of the well screen. The annulus was then filled with bentonite slurry. Concrete slurry mix was used from the top of the bentonite seal to install the flush mounted locking steel casing. Monitor well locations are shown in Figure 4.

Survey

The following table indicates the location of the soil boring, monitoring wells and soil vapor probes.

Table for Construction Details for Soil Borings and Monitoring Wells

	Identification Number	Date of construction	Total Depth (feet)	Diameter (inches)	Screened interval (Elevation Range/feet)	Construction Material (PVC, steel, etc)	GPS Coordinates
Soil Borings	SB-1 SB-2 SB-3 SB-4 SB-5	3/6/2014	19 19 12 12 12	2 2 2 2 2			46.5’E, 12’S 6’E, 16’S 2.5’E, 4.5’S 21’E, 6.4’S 56’E, 6’S
Monitor Wells	MW-1 MW-2	3/6/2014	19 19	1 1	19 ¾ 19 ¾	PVC PVC	46.5’E, 12’S 6’E, 16’S
Soli Vapor	SVP-1 SVP-2 SVP-3 Indoor Ambient	3/6/2014	2 2 12 4 above site grade 5 above sidewalk	½ ½ 2			39.7’E. 6.7’S 25’E, 23’S 2.5’E, 4.5’S 43.3’E, 24.5’S 63’E, 23’S

Water Level Measurement

An oil/water interface probe, cotton string and disposable bailers were used to detect the presence of any floating products as well as water level measurement in the well. The wells were then purged using a peristaltic pump with dedicated polyethylene tubing. Three to five well casing volumes of standing water were removed from each well until the turbidity was cleared prior to sample collection. Water level data is included in Section 5.1.

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. 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

The soil borings were advanced to a maximum depth of 18 feet bgs using a track mounted Geoprobe® system. Soil samples were collected directly from four-foot macro-core samplers. The visual inspection of the samples was immediately performed and field logs were prepared. All samples were screened using handheld MiniRAE 2000 and the readings were logged. Discrete grab soil samples from the sampling intervals 0-2 feet bgs and 16-18 feet bgs were collected. Samples were placed into laboratory supplied sample bottles, labeled and stored on site in a cooler. Two soil samples from each boring were submitted to a NYSDOH ELAP-certified laboratory for analysis. The soil samples were analyzed for the presence of Volatile Organic Compounds (VOC) using EPA Method 8021/8260, Semi-volatile Organic Compounds (SVOC) using EPA Method 8270, Metals using EPA Method 6010, Pesticides using EPA Method (8081) and Polychlorinated Biphenyls (PCBs) using EPA Method 8082. Soil analytical results were compared to NYSDEC's Unrestricted Use Soil Cleanup Objectives (SCOs) and Restricted Residential Use SCOs.

Ten soil samples 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 Table 1-6, in Appendix E. Figure 4 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

ESPL collected two (2) groundwater samples from borings MW-1, and MW-2 using a peristaltic pump on March 6, 2014. Non-dedicated sampling equipment was decontaminated prior to the collection of each sample. Following stabilization of the field parameters, groundwater was carefully poured from the discharge tubing into laboratory-supplied sample containers. Groundwater sample was labeled, and analyzed for the presence of VOC, SVOC, TAL Metals PCBs, and Pesticides. The groundwater sample analytical results were compared to the NYSDEC Class GA Groundwater Quality Standards, Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, (NYSDEC, June 1998).

Groundwater Sampling Logs

Well ID Number	Date, Start & End Time	Purge Method	Purge Rate(s) (l/min)	Total Volume Purged (gals)	Headspace PID	Temperature (°F)	Total Depth of the well from the top of Casing (feet)	Sample Date and Time
MW-1	3/6/2014 8:00-8:35 AM	Peristaltic Pump	1	1	0	28	19	3/6/2014 4:40 PM
MW-2	3/6/2014 9:30-10:20 AM	Peristaltic Pump	1	1.5	0	28	19	3/6/2014 5:30 PM

Two groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in Table 7-11, in Appendix F. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix D. Figure 4 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

The soil vapor probes were advanced utilizing a track mounted Geoprobe® system to a depth of 16 feet bgs. The soil vapor probe consisted of a 21" stainless steel wire screen implant fitted with a ¼" diameter polyethylene tubing to the surface and was sealed at grade with a cement-bentonite mixture. A helium enriched atmosphere was created in the immediate vicinity of the area where the probe intersects the ground surface. The tracer gas (helium) was utilized during purging and sampling collection activities to serve as a quality assurance/quality control measure to verify the integrity of the soil vapor probe seal, and that adequate sampling technique are being implemented. 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 four 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 samples were analyzed using USEPA Method TO-15 for volatile organic chemical compounds and helium. The minimum reporting limit will be 1 microgram per cubic meter (1mcg/m^3) or less.

Five soil vapor probes were installed and five soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 4. Soil vapor sample collection data is reported in Table 12; in Appendix G. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

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 Margaret Tavares
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories, Inc.
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..

Analytical Methods Summary Table

Matrix	Number of Samples	Analytical parameters measured	Analytical methods	Number of duplicate samples	Number and type of QA/QC samples
Soil	10	VOC, SVOC, PCB, Pesticides, Metals	8260, 8270, 8081, 8082, 6010	0	1
Groundwater	2	VOC, SVOC, PCB, Pesticides, Metals	8260, 8270, 8081, 608/8082, 6010	0	1
Soil vapor	5	VOC	TO15	0	0

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Table 1-12, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix H.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

The lithologic description of the sediments from soil borings advanced during this investigation at the site identifies heterogeneous urban fill across most of the site mixed with fine to coarse silty sand with rock fragments to a depth of 12 feet bgs. From 12-16 feet bgs black sand is encountered.

Hydrogeology

A table of water level data for all monitor wells is included in below. The range and average depth to groundwater is 12 feet bgs. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 7. Groundwater flow is from the northwest to the East River.

Groundwater Level Data

Monitoring Well ID No.	Date	Water Elevation (feet)
MW-1	3/6/2014	12
MW-2	3/6/2014	12

5.2 Soil Chemistry

Soil samples collected during remedial investigation were compared to the 6NYCRR Part 375-6.8 Track 1 (Unrestricted Use SCOs) and Track 2 (Restricted Residential SCOs). Soil/fill samples showed no PCBs at detectable concentrations. Three VOCs were detected above Unrestricted and Restricted Residential SCOs including sec-butylbenzene (max. concentration 50,000 ppb), tert-butylbenzene (max. concentration 15,000 ppb), and trichloroethene (max. concentration 1,800 ppb). Five SVOCs were detected above Unrestricted and Restricted Residential SCOs in one sample collected from areas of where surface staining was observed. These SVOCs were all PAH compounds including benzo(a)anthracene (max. concentration 2,200 ppb), benzo(a)pyrene (max. concentration 1,800 ppb), benzo(a)fluoranthene (max.

concentration 2,500 ppb), benzo(k)fluoranthene (max. concentration 1,100 ppb), chrysene (max. concentration 1,300 ppb) and Indeno(1,2,3-cd)pyrene) (max. concentration 830 ppb). Metals including copper (max. concentration 462 ppm), mercury (max. concentration 31.7 ppm), barium (max. concentration 1,080 ppm), arsenic (max. concentration 199 ppm), cadmium (max. concentration 4,940 ppm), zinc (max. concentration 2,360 ppm) and lead (max. concentration 1,560 ppm) exceeded their respective Restricted Residential SCOs. 4,4' –DDT (max. concentration 12 ppb), exceeded UUSCOs in one deep sample, well below its RRSCOs.

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 1-6, in Appendix E. Figure 6 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

5. Groundwater samples collected during the RI were compared to NYSDEC Part 703.5 Groundwater Quality Standards (GQS). Groundwater results showed no SVOCs, or pesticides at detectable concentrations. Several VOCs were detected above theirGQS and included 4-chlorotoluene (max. of 22 ug/L), isopropylbenzene (max. of 6.1 ug/L), n-butylbenzene (max. of 6.8 ug/L), sec- butylbenzene (max. of 29 ug/L), and tert- butylbenzene (max. of 13 ug/L). Several metals were identified, but only aluminum, arsenic (max. of 0.039 ug/L), manganese, magnesium, sodium, and iron exceeded their respective GQSs. One PCB, PCB-1260 (0.3 ppm), was detected above its GQS, The RI indicates that groundwater has been impacted by site conditions.

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 Table 7-11, In Appendix F. Exceedence of applicable groundwater standards are shown.

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.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. Most compounds were detected at concentrations less than 25

ug/m^3, except for acetone, that was detected at 167 ug/m^3. Chlorinated PCE was identified in two vapor samples at a maximum concentration of 92.2 ug/m^{3}TCE exceeded the NYSDOH Guidance Value, with a maximum value of 66 ug/m^3. Carbon tetrachloride was detected below guidance values, and 111-TCA was not detected. BTEX compounds were found throughout the Site, with the highest concentration at 41.8 ug/m3.

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 12, in Appendix G.

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

Soil Vapor Exceeding Guidance Values

Sample ID	SVP-1	SVP-3	NYSDOH Guidance Values
Date Collected	3/6/2014	3/6/2014	
Matrix	Air	Air	
EPA Methodology	TO-15	TO-15	
Date Analyzed**	3/11/2014	3/11/2014	
Parameter/Units	ug/m3	ug/m3	
	Results	Results	
Trichloroethene	66	6.18	5

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.

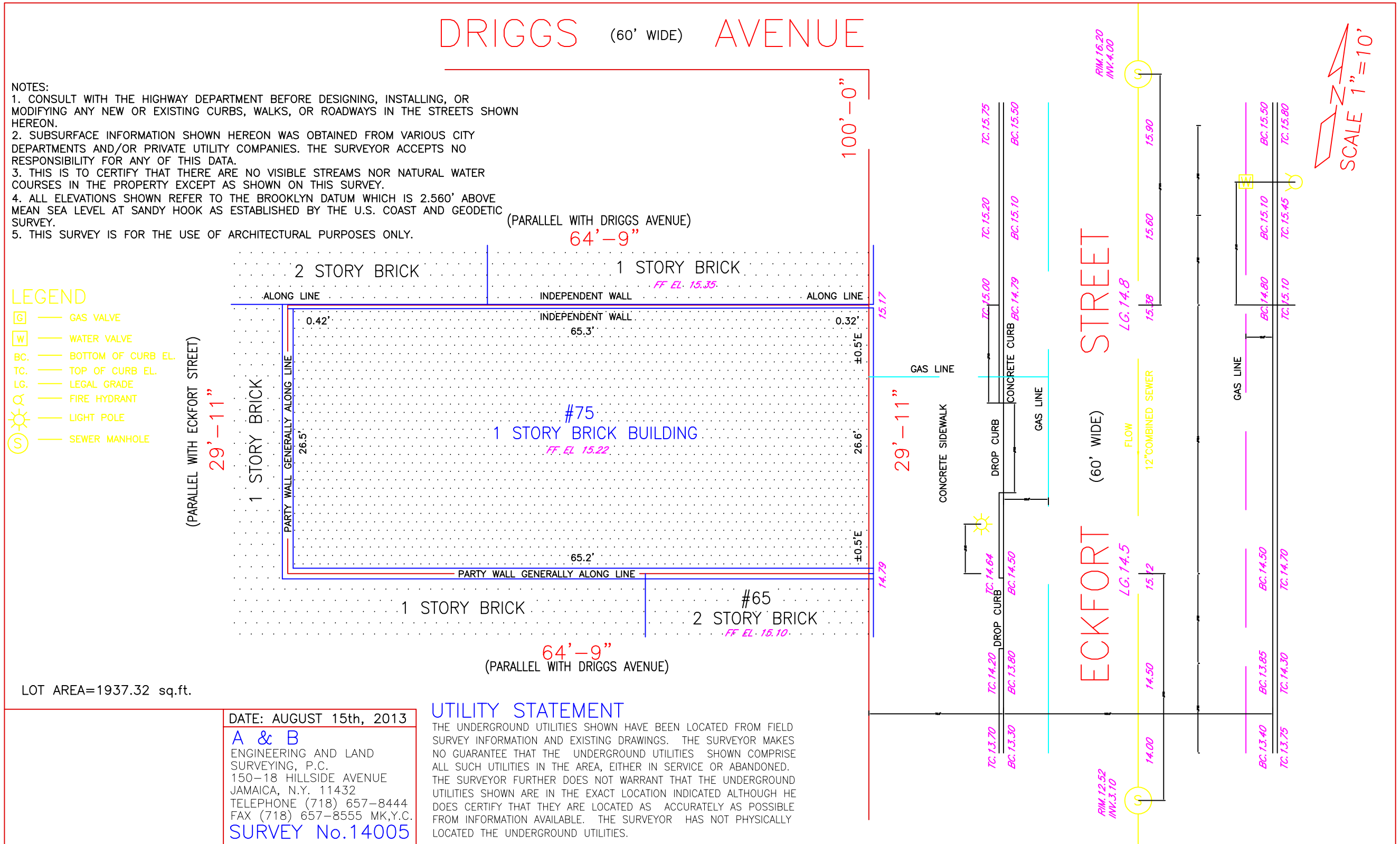
Appendix A

Figures

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

Sheet Title: Site Location Map	Project #: 126-3	Scale: As Shown	**Figure 1**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	

NOTES:
1. CONSULT WITH THE HIGHWAY DEPARTMENT BEFORE DESIGNING, INSTALLING, OR MODIFYING ANY NEW OR EXISTING CURBS, WALKS, OR ROADWAYS IN THE STREETS SHOWN HEREON.
2. SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FROM VARIOUS CITY DEPARTMENTS AND/OR PRIVATE UTILITY COMPANIES. THE SURVEYOR ACCEPTS NO RESPONSIBILITY FOR ANY OF THIS DATA.
3. THIS IS TO CERTIFY THAT THERE ARE NO VISIBLE STREAMS NOR NATURAL WATER COURSES IN THE PROPERTY EXCEPT AS SHOWN ON THIS SURVEY.
4. ALL ELEVATIONS SHOWN REFER TO THE BROOKLYN DATUM WHICH IS 2.560' ABOVE MEAN SEA LEVEL AT SANDY HOOK AS ESTABLISHED BY THE U.S. COAST AND GEODETIC SURVEY.
5. THIS SURVEY IS FOR THE USE OF ARCHITECTURAL PURPOSES ONLY.



LOT AREA=1937.32 sq.ft.

DATE: AUGUST 15th, 2013

A & B
ENGINEERING AND LAND SURVEYING, P.C.
150-18 HILLSIDE AVENUE
JAMAICA, N.Y. 11432
TELEPHONE (718) 657-8444
FAX (718) 657-8555 MK,Y.C.

SURVEY No.14005

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

DAVID D. ARABI, P.E.
NEW YORK LICENSE 06735-1
PAUL BARYLSKI, L.S.
NEW YORK LICENSE 050782

BOROUGH OF BROOKLYN
COUNTY OF KINGS
STATE OF NEW YORK

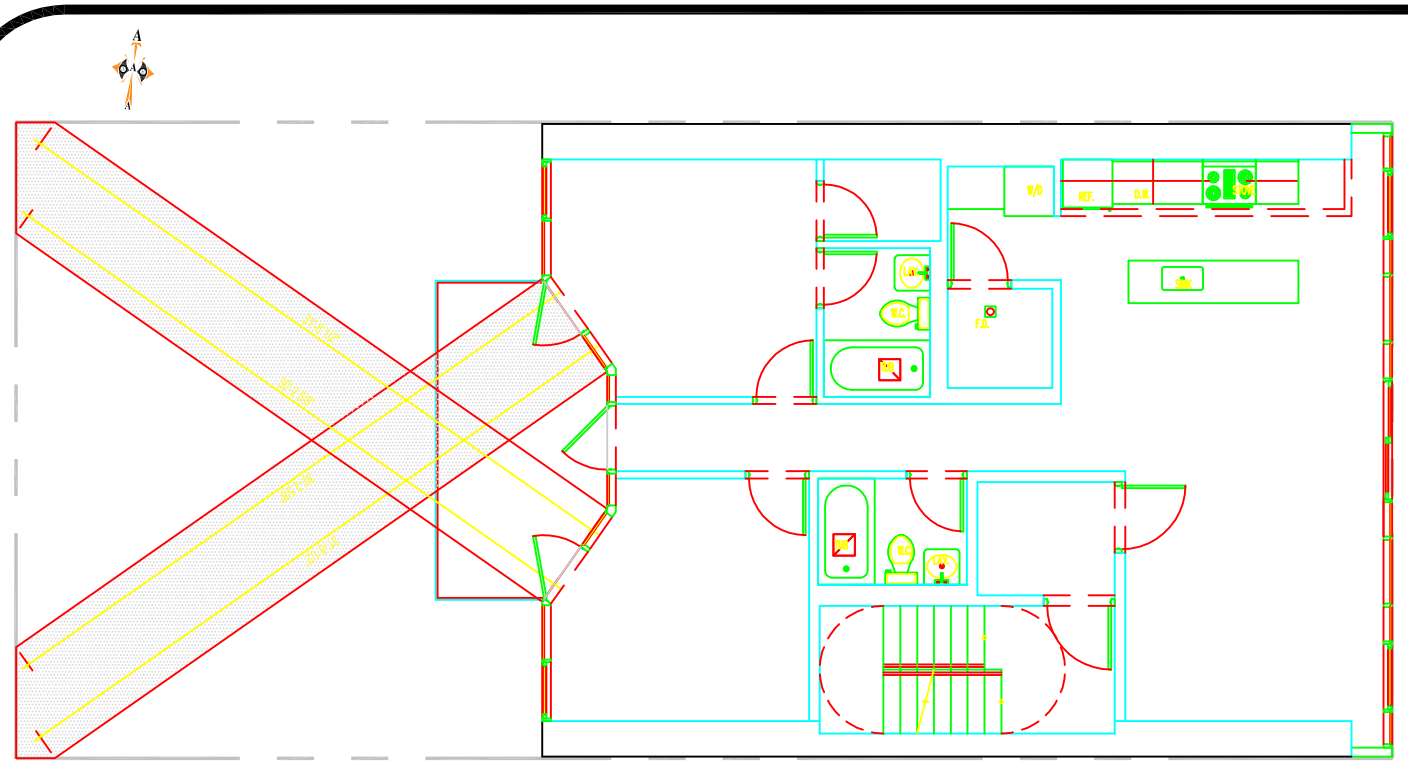
TAX MAP	FILED MAP
SECTION	SECTION
BLOCK 2698	BLOCK
LOT 25	LOT

CERTIFIED TO:
NEW YORK CITY DEPARTMENT OF BUILDINGS

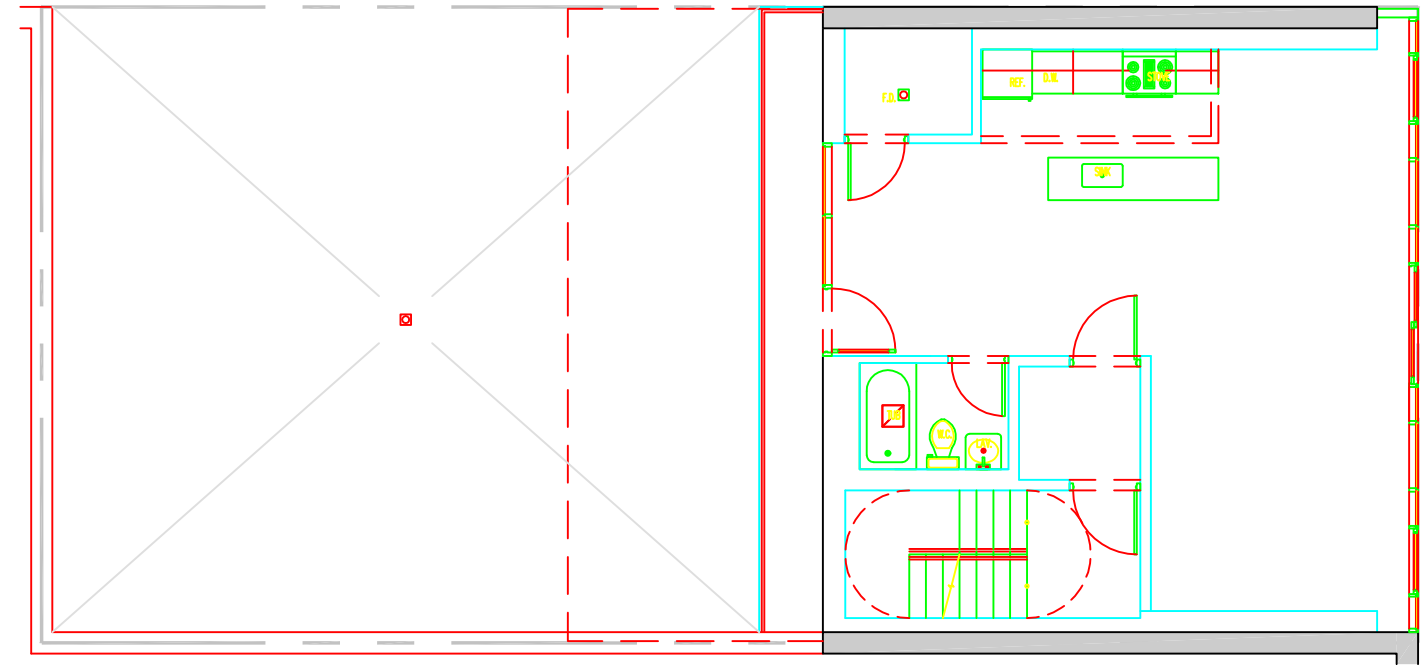
TITLE No.

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

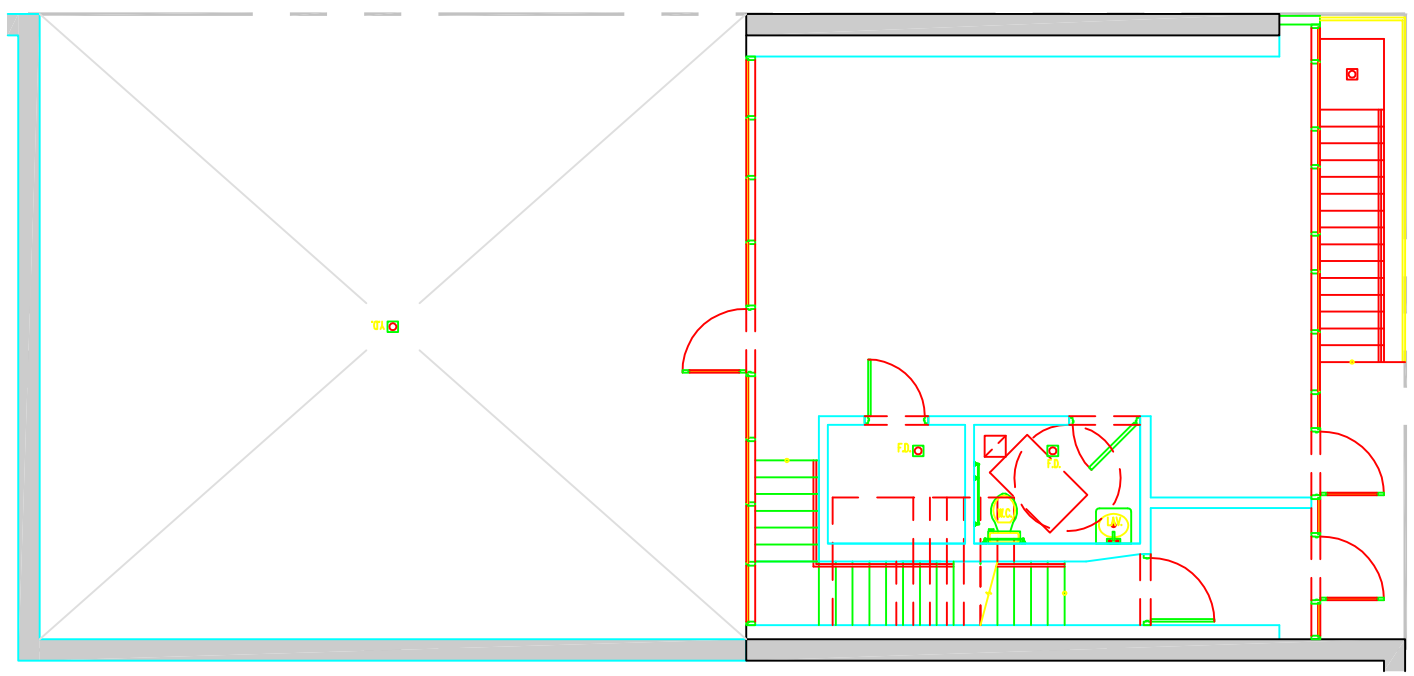
Sheet Title: Site Re-Development Plan Map	Project #: 126-3	Scale: As Shown	Figure 2.0
Client & Location: 75 Eckford Street LLC, 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



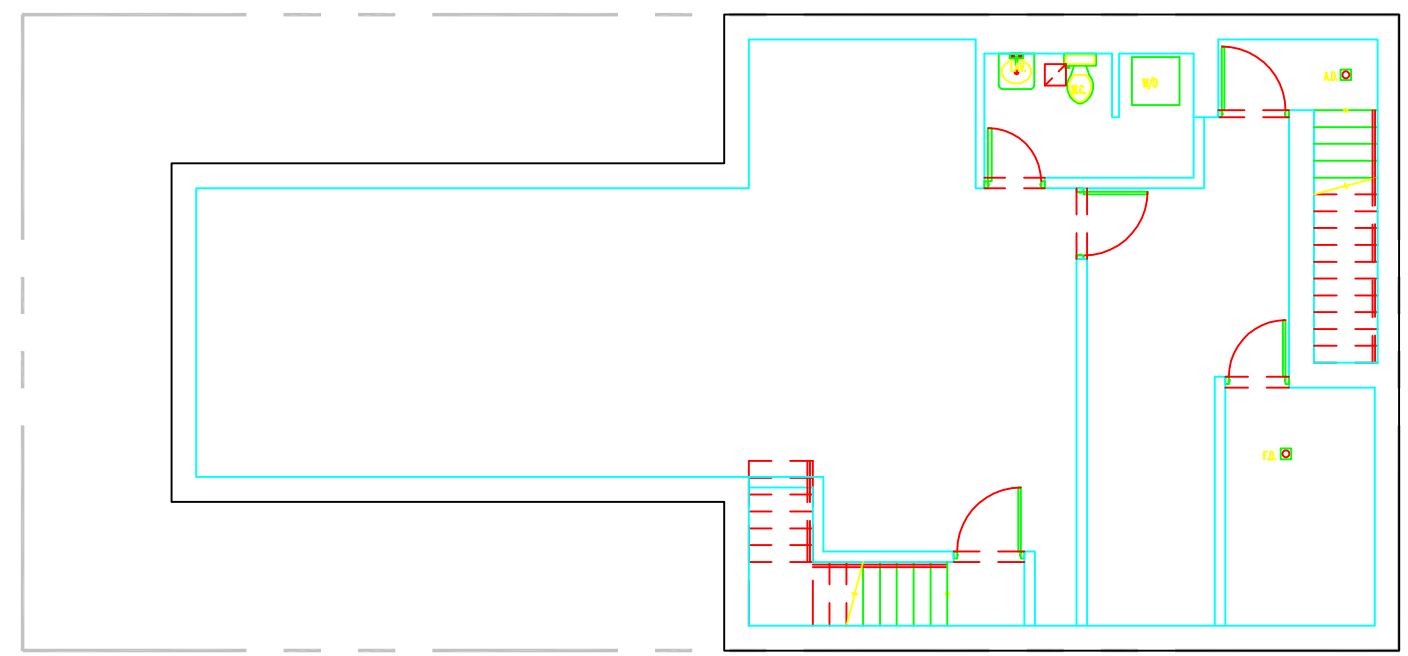
THIRD FLOOR



SECOND FLOOR



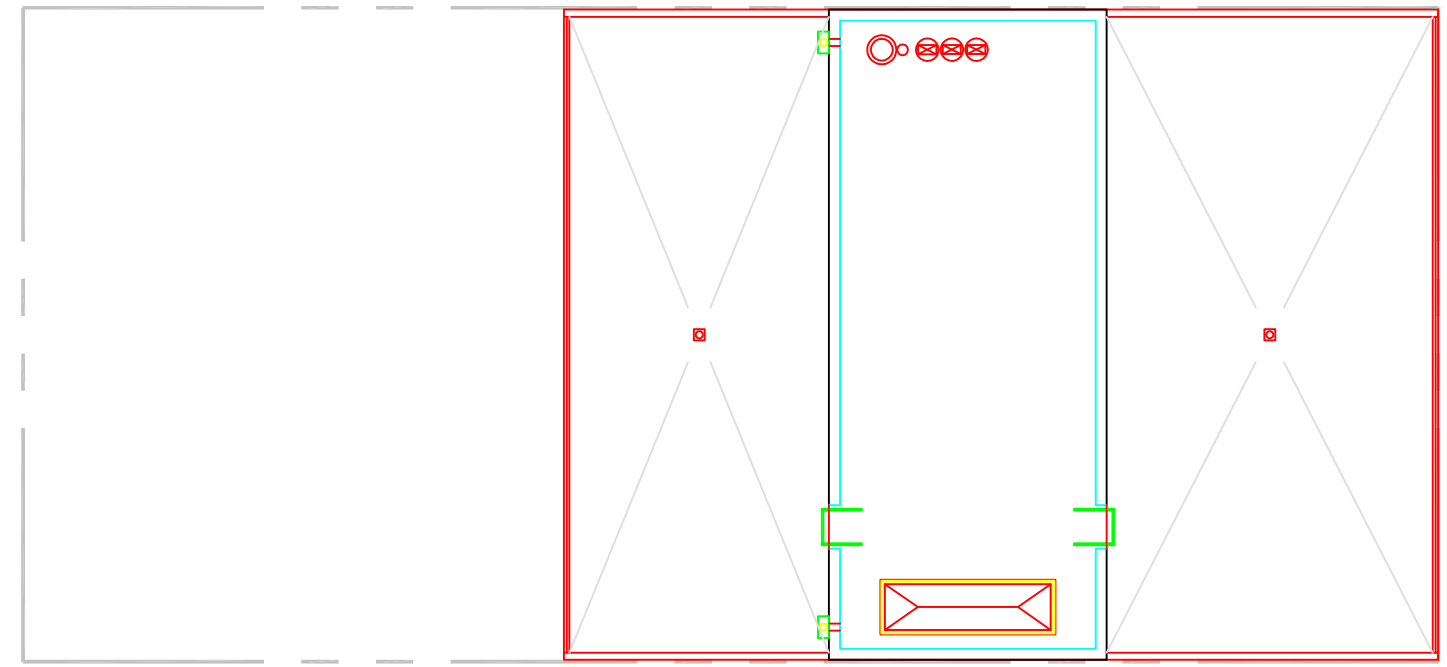
FIRST FLOOR



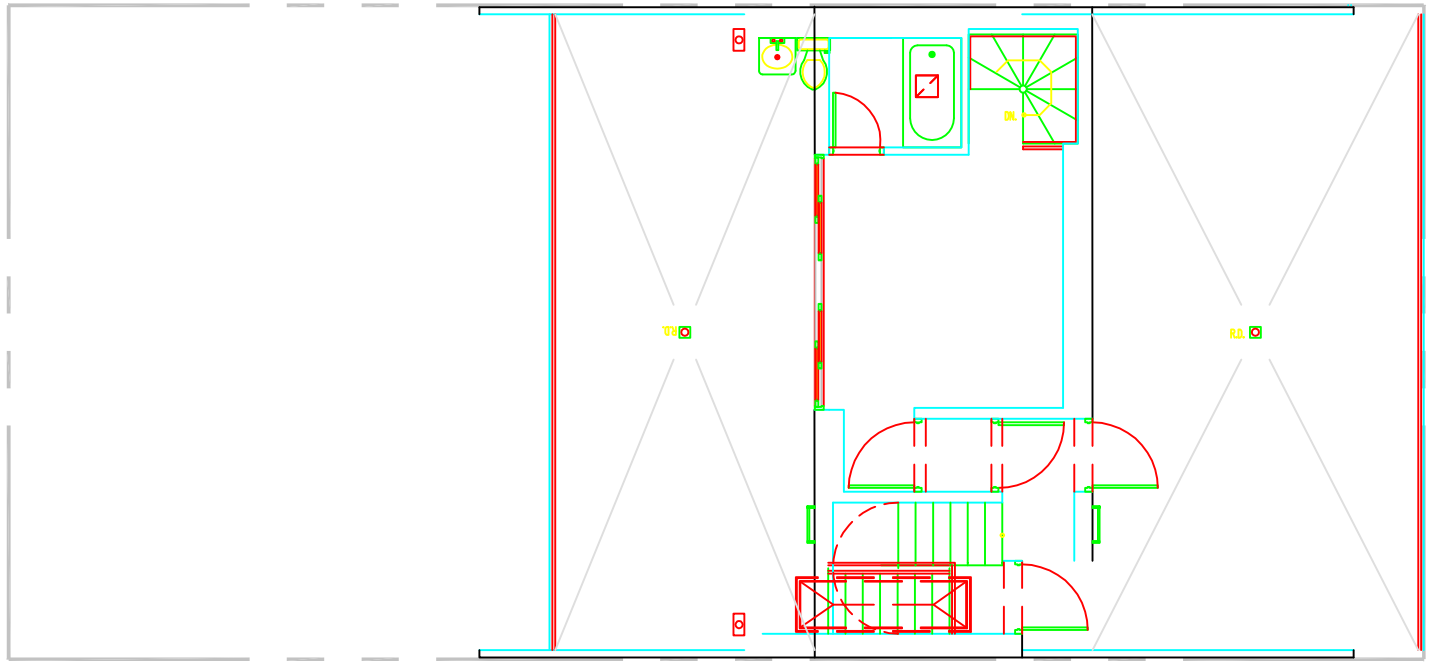
CELLAR

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

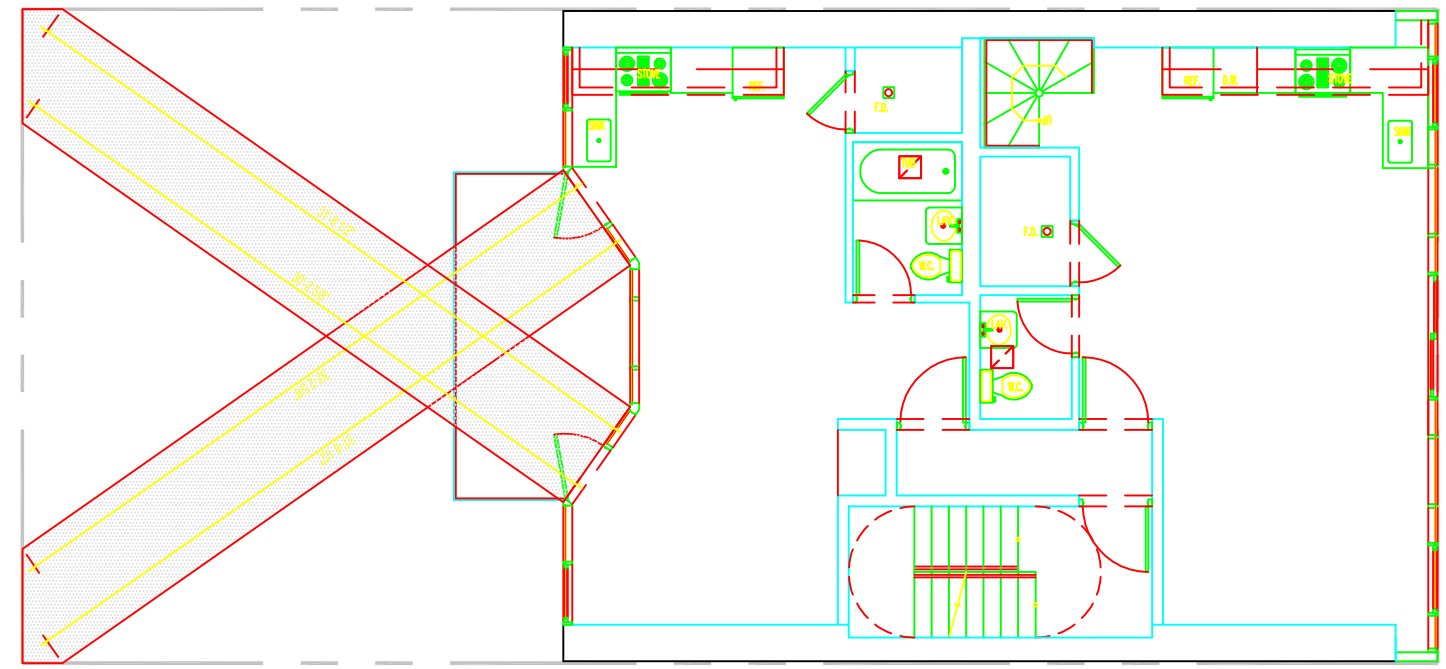
Sheet Title: Site Re-Development Plan	Project #: 126-3	Scale: As Shown	**Figure 2.1**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



ROOF



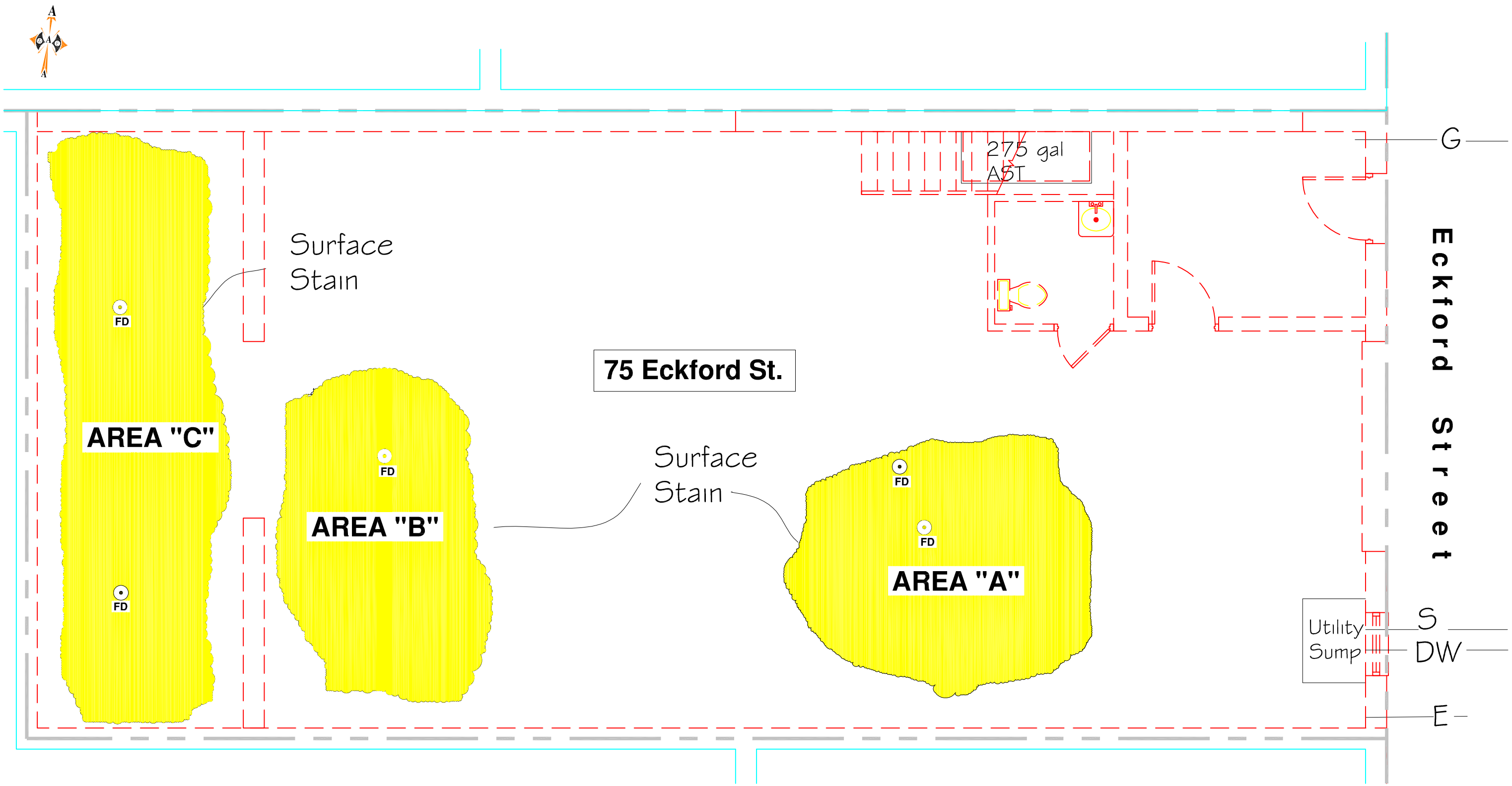
Penthouse



FOURTH FLOOR

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

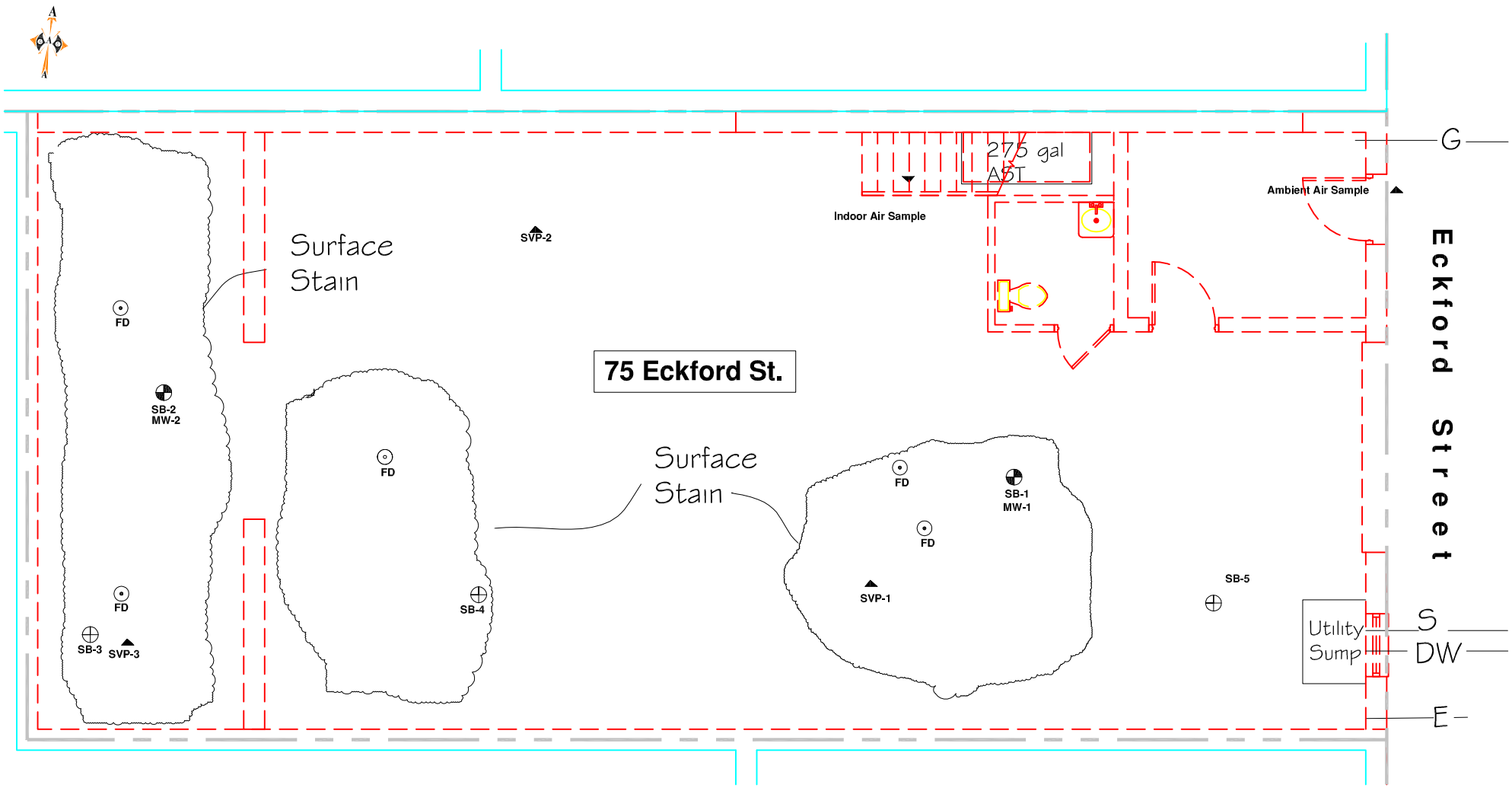
Sheet Title: Site Re-Development Plan Map	Project #: 126-3	Scale: As Shown	**Figure 2.2**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



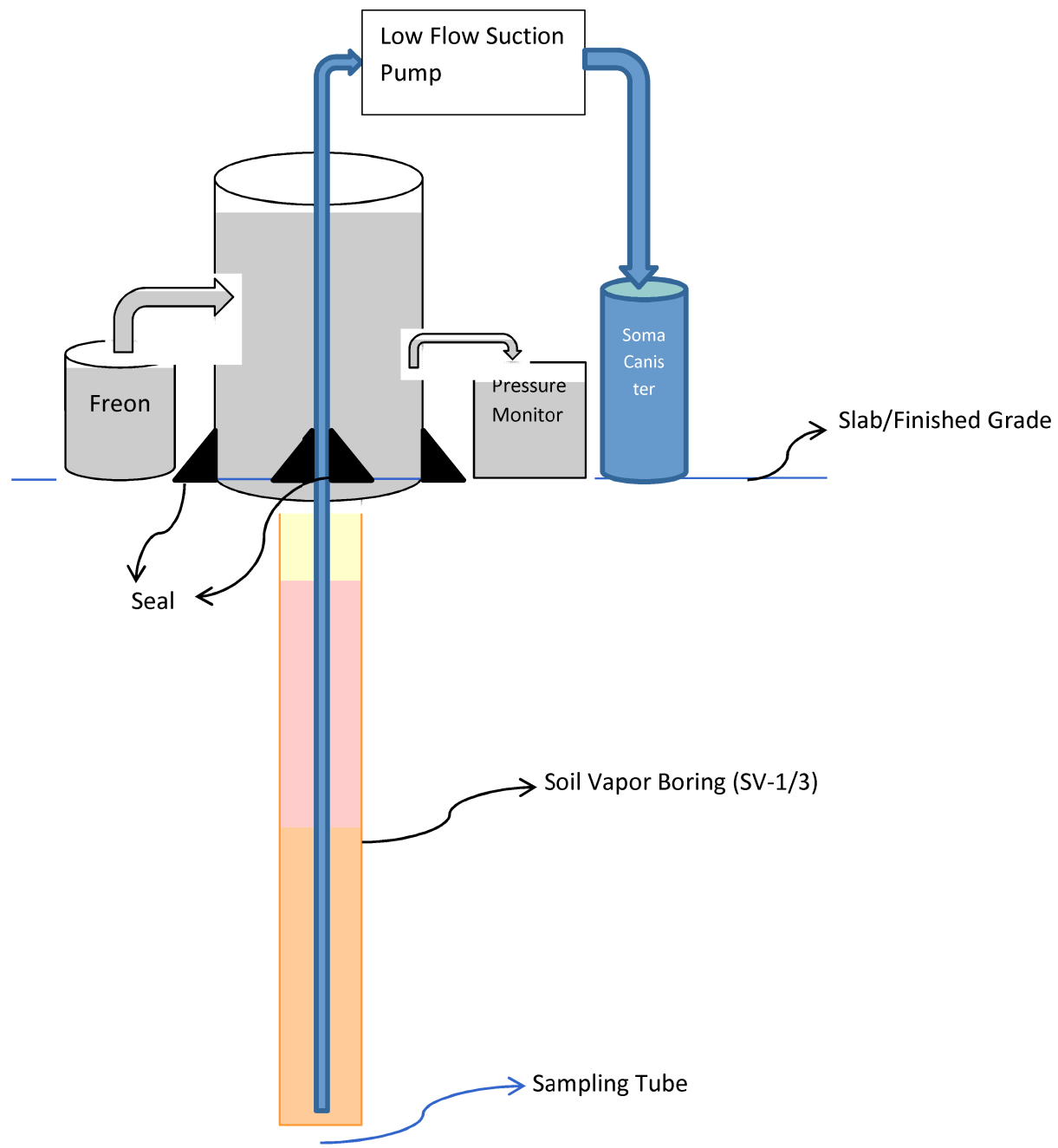
ESPL Environmental Consultants Corp.

Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

Sheet Title: Map of Areas of Concern	Project #: 126-3	Scale: As Shown	**Figure 3**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	

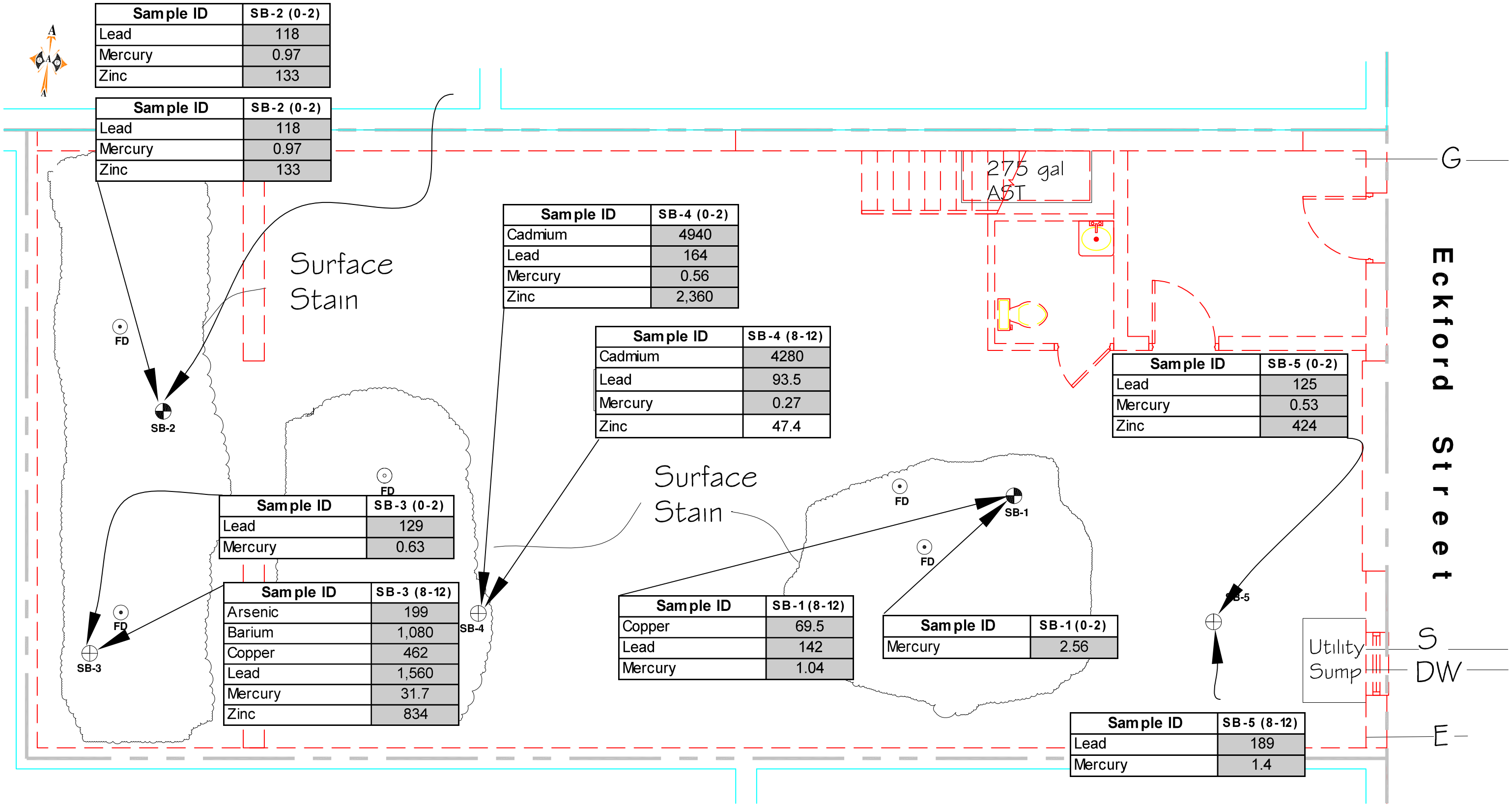


ESPL Environmental Consultants Corp. Address: 2 West 32nd Street NY 10001 Tel: 212-363-ESPL Email: mail@espl.com www.espl.com	Sheet Title: Map of Soil Boring, Monitoring Wells and Soil Vapor Points Locations	Project #: 126-3	Scale: As Shown	**Figure 4**
	Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

Sheet Title: Soil Vapor Extraction Schematic	Project #: 126-3	Scale: As Shown	**Figure 5**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



Sample ID	SB-2 (0-2)
Lead	118
Mercury	0.97
Zinc	133

Sample ID	SB-2 (0-2)
Lead	118
Mercury	0.97
Zinc	133

Sample ID	SB-4 (0-2)
Cadmium	4940
Lead	164
Mercury	0.56
Zinc	2,360

Sample ID	SB-4 (8-12)
Cadmium	4280
Lead	93.5
Mercury	0.27
Zinc	47.4

Sample ID	SB-5 (0-2)
Lead	125
Mercury	0.53
Zinc	424

Sample ID	SB-3 (0-2)
Lead	129
Mercury	0.63

Sample ID	SB-3 (8-12)
Arsenic	199
Barium	1,080
Copper	462
Lead	1,560
Mercury	31.7
Zinc	834

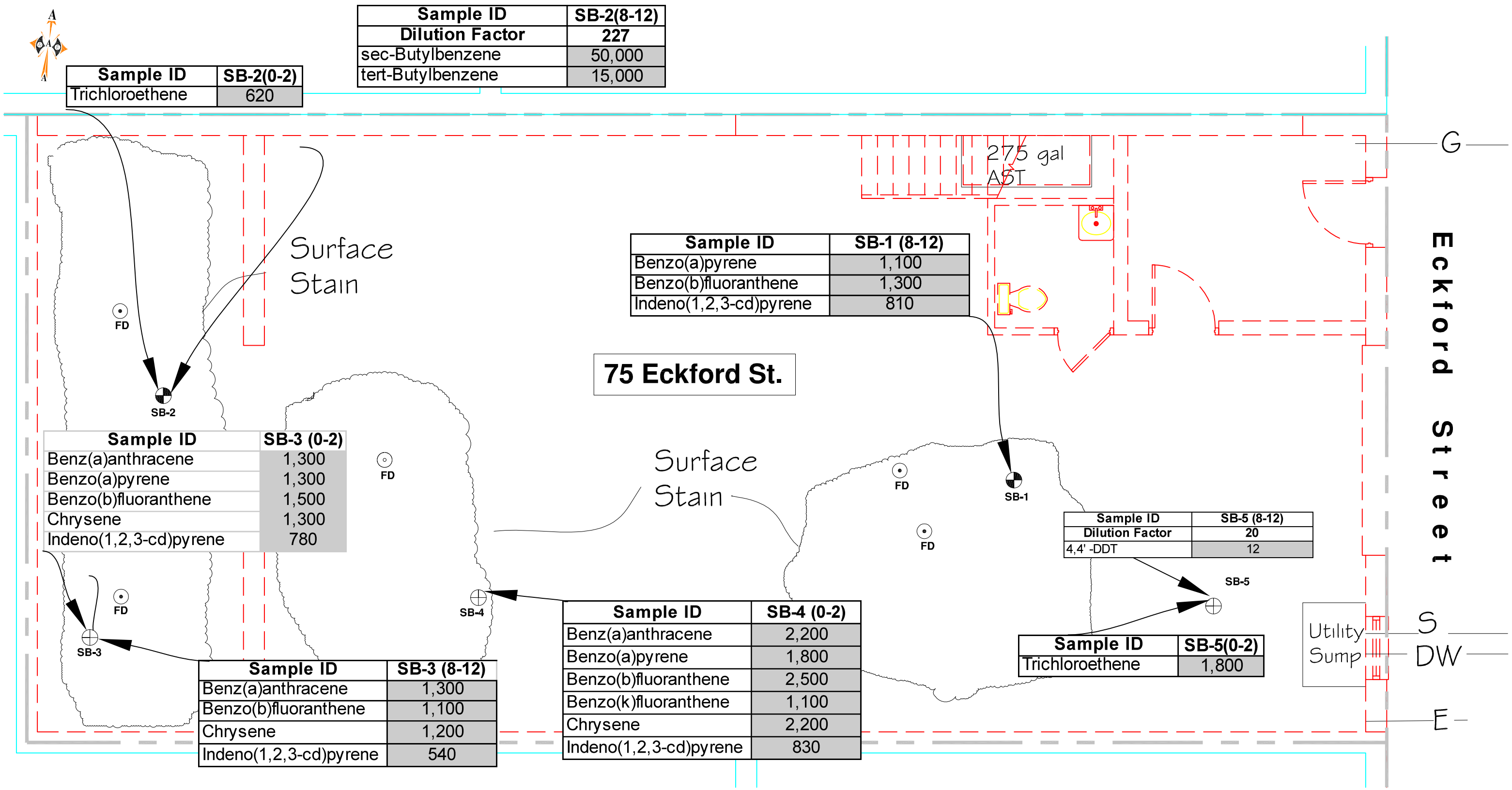
Sample ID	SB-1 (8-12)
Copper	69.5
Lead	142
Mercury	1.04

Sample ID	SB-1 (0-2)
Mercury	2.56

Sample ID	SB-5 (8-12)
Lead	189
Mercury	1.4

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

Sheet Title: Map of Soil Chemistry (TAL Metals) Results	Project #: 126-3	Scale: As Shown	**Figure 6.1**
Client & Location: 75 Eckford Street LLC, 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



Sample ID	SB-2(0-2)
Trichloroethene	620

Sample ID	SB-2(8-12)
Dilution Factor	227
sec-Butylbenzene	50,000
tert-Butylbenzene	15,000

Sample ID	SB-1 (8-12)
Benzo(a)pyrene	1,100
Benzo(b)fluoranthene	1,300
Indeno(1,2,3-cd)pyrene	810

75 Eckford St.

Sample ID	SB-3 (0-2)
Benz(a)anthracene	1,300
Benzo(a)pyrene	1,300
Benzo(b)fluoranthene	1,500
Chrysene	1,300
Indeno(1,2,3-cd)pyrene	780

Sample ID	SB-3 (8-12)
Benz(a)anthracene	1,300
Benzo(b)fluoranthene	1,100
Chrysene	1,200
Indeno(1,2,3-cd)pyrene	540

Sample ID	SB-4 (0-2)
Benz(a)anthracene	2,200
Benzo(a)pyrene	1,800
Benzo(b)fluoranthene	2,500
Benzo(k)fluoranthene	1,100
Chrysene	2,200
Indeno(1,2,3-cd)pyrene	830

Sample ID	SB-5 (8-12)
Dilution Factor	20
4,4' -DDT	12

Sample ID	SB-5(0-2)
Trichloroethene	1,800

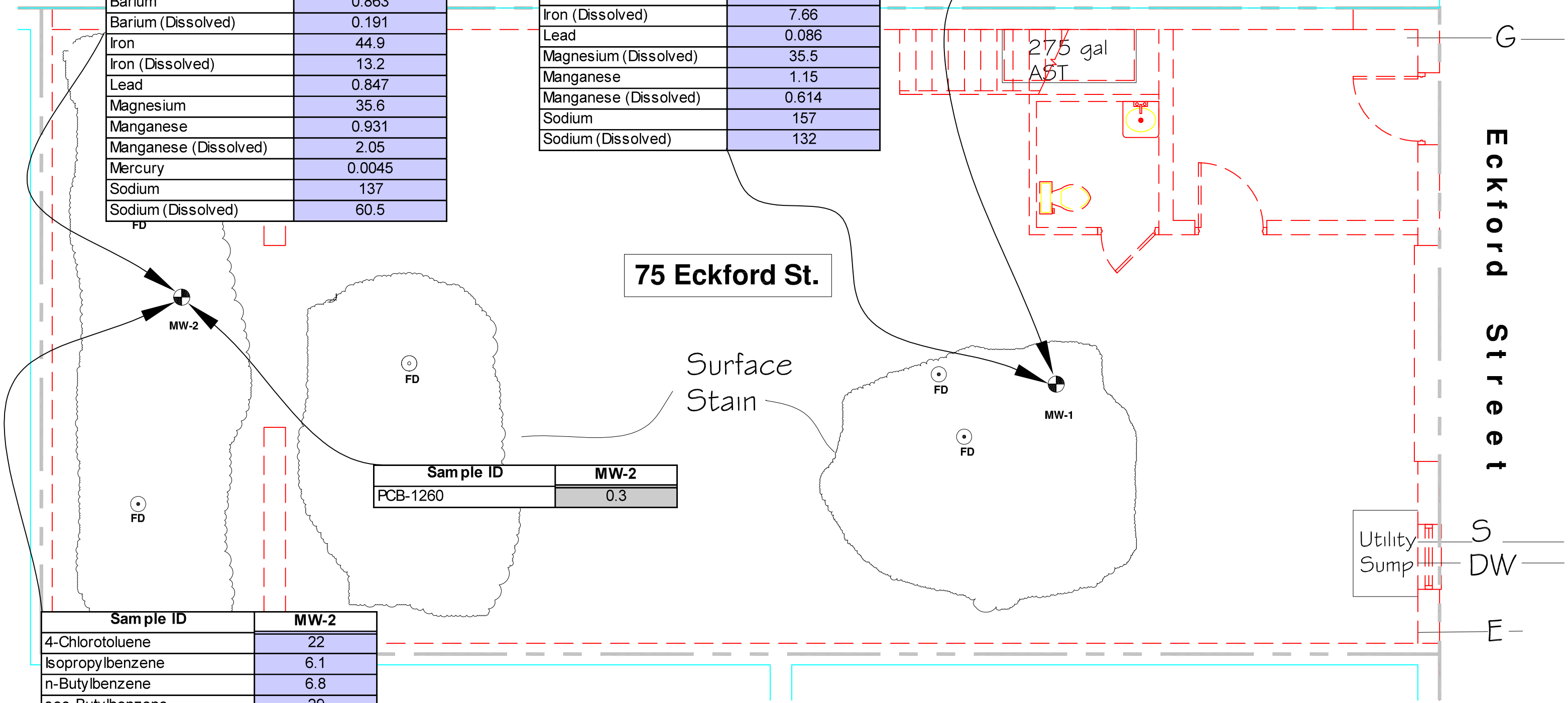
ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

Sheet Title: Map of Soil Chemistry (SVOC,Pest) Results	Project #: 126-3	Scale: As Shown	**Figure 6**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	

Sample ID	MW-2
Aluminum	7.55
Aluminum (Dissolved)	0.22
Arsenic	0.082
Barium	0.863
Barium (Dissolved)	0.191
Iron	44.9
Iron (Dissolved)	13.2
Lead	0.847
Magnesium	35.6
Manganese	0.931
Manganese (Dissolved)	2.05
Mercury	0.0045
Sodium	137
Sodium (Dissolved)	60.5

Sample ID	MW-1
Aluminum	1.01
Aluminum (Dissolved)	0.24
Arsenic	0.073
Arsenic (Dissolved)	0.039
Iron	27.4
Iron (Dissolved)	7.66
Lead	0.086
Magnesium (Dissolved)	35.5
Manganese	1.15
Manganese (Dissolved)	0.614
Sodium	157
Sodium (Dissolved)	132

Sample ID	MW-1
4-Chlorotoluene	14
n-Butylbenzene	6.7
sec-Butylbenzene	20
tert-Butylbenzene	8.6

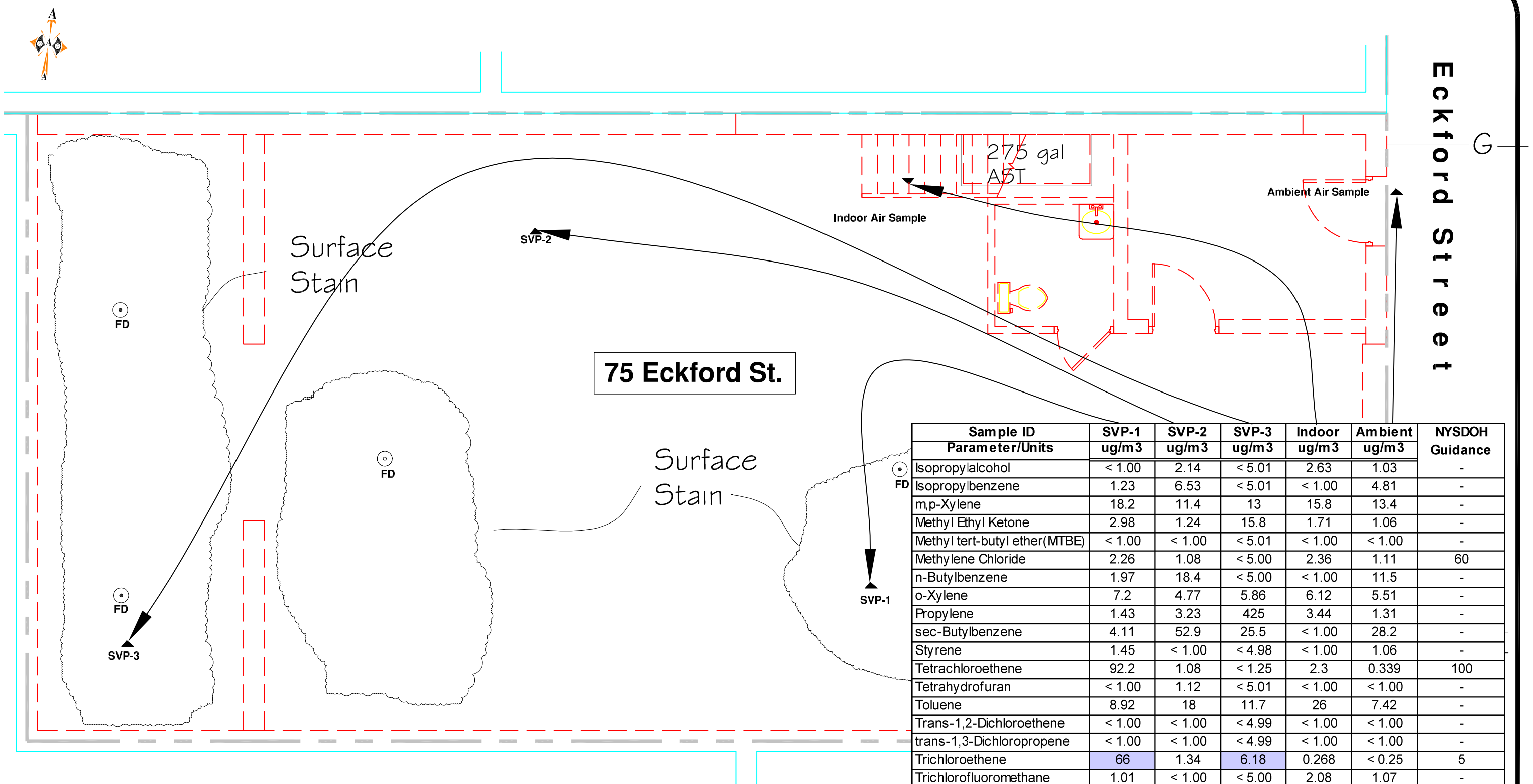


Sample ID	MW-2
PCB-1260	0.3

Sample ID	MW-2
4-Chlorotoluene	22
Isopropylbenzene	6.1
n-Butylbenzene	6.8
sec-Butylbenzene	29
tert-Butylbenzene	13

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

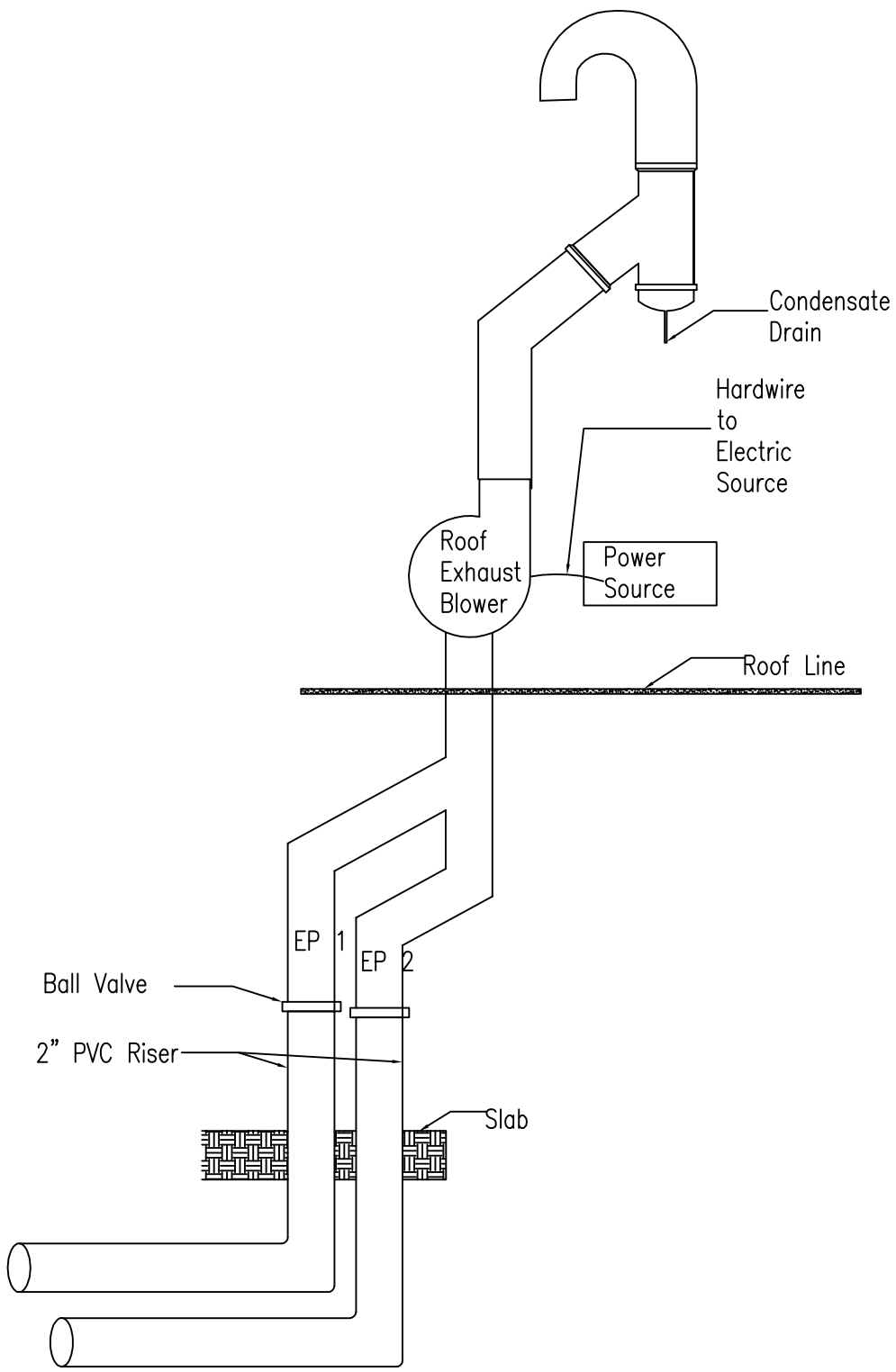
Sheet Title: Map of Groundwater Chemistry Results	Project #: 126-3	Scale: As Shown	**Figure 7**
Client & Location: 75 Eckford Street LLC, 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



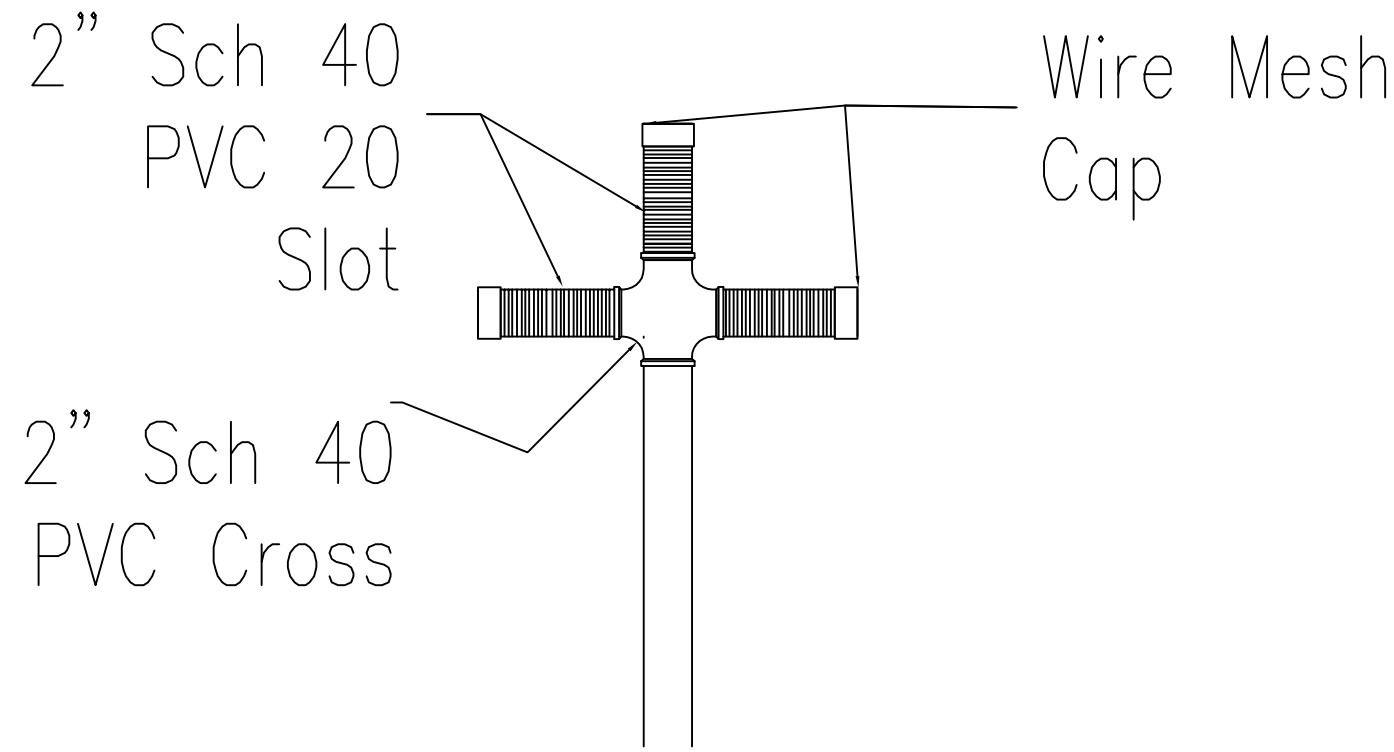
Sample ID Parameter/Units	SVP-1 ug/m3	SVP-2 ug/m3	SVP-3 ug/m3	Indoor ug/m3	Ambient ug/m3	NYSDOH Guidance
Isopropylalcohol	< 1.00	2.14	< 5.01	2.63	1.03	-
Isopropylbenzene	1.23	6.53	< 5.01	< 1.00	4.81	-
m,p-Xylene	18.2	11.4	13	15.8	13.4	-
Methyl Ethyl Ketone	2.98	1.24	15.8	1.71	1.06	-
Methyl tert-butyl ether(MTBE)	< 1.00	< 1.00	< 5.01	< 1.00	< 1.00	-
Methylene Chloride	2.26	1.08	< 5.00	2.36	1.11	60
n-Butylbenzene	1.97	18.4	< 5.00	< 1.00	11.5	-
o-Xylene	7.2	4.77	5.86	6.12	5.51	-
Propylene	1.43	3.23	425	3.44	1.31	-
sec-Butylbenzene	4.11	52.9	25.5	< 1.00	28.2	-
Styrene	1.45	< 1.00	< 4.98	< 1.00	1.06	-
Tetrachloroethene	92.2	1.08	< 1.25	2.3	0.339	100
Tetrahydrofuran	< 1.00	1.12	< 5.01	< 1.00	< 1.00	-
Toluene	8.92	18	11.7	26	7.42	-
Trans-1,2-Dichloroethene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
trans-1,3-Dichloropropene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
Trichloroethene	66	1.34	6.18	0.268	< 0.25	5
Trichlorofluoromethane	1.01	< 1.00	< 5.00	2.08	1.07	-
Trichlorotrifluoroethane	1.38	1.3	< 5.00	2.83	1.46	-
Vinyl Chloride	< 0.25	< 0.25	1.66	< 0.25	< 0.25	-

ESPL Environmental Consultants Corp.
Address: 2 West 32nd Street
NY 10001 Tel: 212-363-ESPL
Email: mail@espl.com www.espl.com

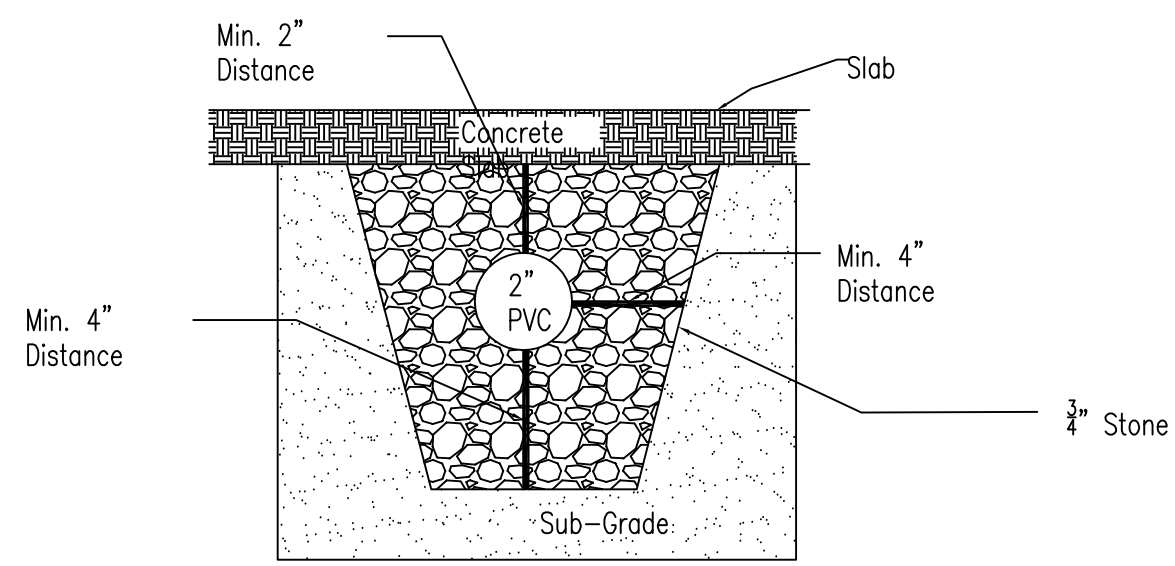
Sheet Title: Map of Soil Vapor Chemistry	Project #: 126-3	Scale: As Shown	**Figure 8**
Client & Location: 75 Eckford Street LLC 75 Eckford Street, Brooklyn NY	Date: March 19,2014	Drawn By: T.H.	



Note 3– Manifolded Piping Details



Note 2– Extraction Point Details



Note 1– Pipe Trench Details

SCALE: N.T.S.

ESPL Environmental Consultants Corp.	Title: SSDS Details	Project #: 107-22	Scale: As Shawn	LEGEND
Address: 2 W 32nd Street 5th Flr. NY, NY 10001 Tel: (212) 363–ESPL Fax: (212) 330–7505 Email: mail@espl.com www.espl.com	Client: The Trust Under the Will of Arnold Levien Location: 42-32 21st. Street, LIC, NY	Date: 3.26.2014	Drawn By: T.H.	

Appendix B

Phase I Report

PHASE I

ENVIRONMENTAL ASSESSMENT

Conducted At :
ROY'S AUTO REPAIR, 1-STORY & MEZZANINE
#75 ECKFORD STREET
GREENPOINT, BROOKLYN 11222

Conducted For :
MR. RAPHAEL ELBAZ, CEO
SINSSA CORP.
#300 WYTHE AVENUE, APT. 3J
BROOKLYN, N.Y. 11249-4153

PROJECT E. A. - 2,025
Authorized August 6, 2013

Prepared By :
PROF. MALCOLM I. BARKAN, P.E.
MIB ENVIRONMENTAL CONSULTING
#32 Empress Pines Drive
Nesconset, N.Y. 11767
(631) 981-2122
mibconsulting@optonline.net

E. A. - 2,025

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2.5 Vegetation and Trees Conditions
2.6 Electric Power Group (E-MR)
2.7 Radon gas Calculations

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3.0 Adjacent Properties and Hazmat - Especially Adjacent South Parcel
4.0 Nearby Properties - Environmental Recognized Condition (E.R.C.)

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6.0 Kings County Spills & Tank Leaks
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MIB Environmental Consulting

ENVIRONMENTAL & REMEDIATION ENGINEEI

32 EMPRESS PINES DRIVE
NESCONSET, N.Y. 11767

MALCOLM I. BARKAN, BCE, P.E., MBA, PhD

(631) 981-2122
Fax (631) 981-4131

MYKE LEE, V.P.

e-mail: MIBConsulting@optonline.net or mibconsulting8@gmail.com

August 17, 2013
(646) 247-0900
rafielbaz@gmail.com

Mr. Raphael Elbaz, CEO
SINSSA Corp.
#380 Wythe Avenue, Apt. 3J
Brooklyn, N.Y. 11249-4153

E. A. - 2,025

Dear Mr. Elbaz,

The enclosed Phase I level Environmental Assessment was created from a combination of 8 investigative procedures. These encompass :

* On-Site Investigations - In & around #75 Eckford St. in Greenpoint, Brooklyn 11222; on Tuesday August 6, 2013.

* Adjacent & Nearby Properties. Which are perceived as having posed environmental threats to #75 sub-strata; up to the present time ?

* Overhead Power Conductors (E-MR) and Radon Gas Calculations

* Interviews with Mr. Roy Sibblies - Owner, and Mr. Rafi Elbaz.

* Information from Kings County Dept of Buildings

* NYS DEC data relevant to hydrocarbon spills, within a one mile radius of #75 premises.

* DEC database regarding tank leaks, hydrocarbons & chemicals, at one mile radius of #75 parcel

* EPA + DEC identifications of Superfund Sites, NPL & SPL, at 2 miles radius of #75 property.

a) On-Site Investigations

1-1) The investigations at #75 Eckford St., on Aug. 6, 2013, determined this parcel is 29.11 ft. (north-south) by 69.09 ft. west from Eckford St., a calculated 1,865.66 SF.

1-2) Investigations revealed 4 environmental concerns:

1-2.1) The 2 waste oil tanks (each 275 gallons) under stairway to mezzanine;

1-2.2) Hydrocarbon stains on concrete slabs in 3 areas;

1-2.3) Plus obsolete & discarded parts which contain hydrocarbon residue, as seen in photos #2-5, 8, 11 & 12.

1-2.4) Subsequent research into Bklyn DoB database, determined the adjacent south parcel at #65, was a metal plating shop for about 30 years, whose residue entered #75 sub-strata !

1-3) Water enters #75 beneath its south third, from Eckford St., then is piped north below the concrete slab to a bathroom in #75 N.E. corner; photos #12A & 13A.

2-1) Electrical panel & meter are in #75 S.E. corner, photo #9, which contains :
+ One electric meter;
+ Main switch of 200 amps @ 240 volts;
+ Panel with 13 breakers of : 3 @ 220 volts, 100A. + 2 x 50A; 4 x 20A. & 6 x 15A.

2-2) Gas meter is also in #75 S.E. corner.

2-3) Space heaters are shown in photos #7, 11 & 13. Vent thru the roof in photo #6.

2-4) Roy Sibblies is seen in his office, photo #14.

2-5) The single vehicle lift is in photos #3, 4, 8 & 13, N.W. corner of shop.

2-6) Staircase up 13 steps to a mezzanine is seen in photo #5; the 2 waste oil tanks are below this stairway, in photos #5 & 12.

b) Adjacent & Nearby Properties

3-1) Only the adjacent south property is perceived as likely having posed environmental intrusions into #75 sub-strata; due to over 30 years of metals plating.
None of the other adjacent & nearby properties are evaluated as having posed enviro threats to #75 sub-strata; up to the present time.

3-2) Photos #1, 15 & 16 show properties adjacent north and adjacent south of #75 parcel.

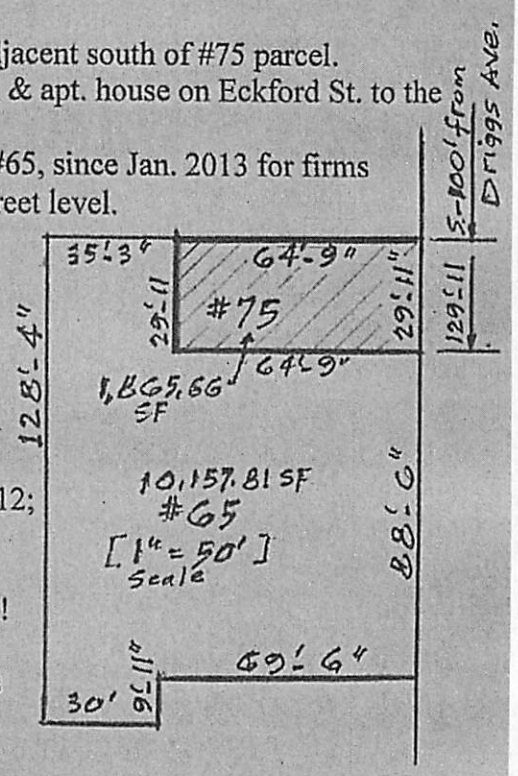
3-2.1) North are the garages utilized by the 3-story adult hotel & apt. house on Eckford St. to the corner of Driggs Ave.

3-2.2) South is the 2-story offices and warehouse building at #65, since Jan. 2013 for firms involved in theatrical props, with storage of props at street level.

3-2.3) C. of O., June 1973, for #65 parcel, lists paint spraying of metal objects, plus storage & factory for building of a calculated 10,157.81 SF.
Sprinkler system installed May, 1973.
Yet, in Dec. 1931 was listed as 1-family building !

3-2.4) In Feb. 2007, construction to replace metal spraying, completed as of June 15, 2012.
Complaint of power washing of building front in 6-15-12; implies that change of use occurred in June 2012; into theatrical props storage & offices.

3-2.5) Completed in Jan. 19, 2013; present use only 7 months !



3-3) Adjacent west, on McGuiness Blvd are residences, offices and retailers between Driggs & Nassau Avenues.

4-1) Nearby to #75 are residential, apt. houses, and building under construction, retailers -- plus restaurants & medical offices on Driggs & Nassau Avenues.

4-2) Evaluated is that one property posed enviro threats to #75 sub-strata; former paint spraying facility adjacent south in #65 Eckford St.

4-2.1) Yet, IF any nearby properties did have a spill or tank leak, and if its volume penetrated approx. 30 feet depth-to-water (DTW) such plume would have tended to flow N-N.W. (west of Eckford St.) or N-N.E. (east of McGuiness Blvd.) <u>away</u> from #75 parcel.

4-3) Therefore, Environmental Recognized Conditioned (E.R.C.) is essentially negative -- except for adjacent south property enviro intrusions, of 5 to 30 years ago, such that E.R.C. is of *minimal* concern to #75 parcel.

c) Overhead Power Conductors and Radon Gas Calculations

5-1) Photos of Eckford St. do NOT indicate pole-mounted electrical conductors.

5-2) In this area of Brooklyn, conduits are beneath Eckford St.

5-3) Therefore, electro-magnetic radiation (E-MR) is NOT a concern to #75 parcel.

6-1) Radon Gas average for NYS was determined as 4.5 pico-curies (p-c) by NYS Dept. of Health (DoH);

6-2) For Kings County, its radon gas average was determined as 1.38 p-c, from 360 test sites.

6-2.1) This Greenpoint area, zip code 11222, has a 0.91 p-c radon gas average, from 29 test points.

6-3) That range is 22.75% of the 4.0 p-c "Action Level" by DoH; which is minimal-to-*negligible* radon gas danger.

6-3.1) Further, since there are several thousand buildings in Greenpoint, Probability of radon gas <u>actually</u> in a future #75 cellar area, is calculated as 0.073%, which is deemed *negligible* potential radon gas danger.

d) Information From Kings County DoB, Regarding #75 Eckford St. plus #65 Parcel

7-1) The 38 pages of printouts in Section H, Part II, are the Bklyn DoB database for #75 Eckford St., plus adjacent south at #65.

7-2) The adjacent south property, calculated as 10,157.81 SF, was one family as of Dec. 1931 C. of O.; but, its June 1973 C. of O. lists "Paint Spraying of Metal Objects", with storage in 2nd level.

7-2.1) Sprinkler system added in May 1973.

7-2.2) Reconstruction in Feb. 2007 thru June 15, 2012; completed as of Jan. 19, 2013 !

7-3) Therefore, paint spraying for approx. 33 years ! That may explain why fumes emanate from various cracks in #75 slab !.

7-3.1) MIB infers, from DoB data, that paint spray operations in #65 -- in more than 3 decades -- likely contaminated adjacent north sub-strata in #75 premises.

7-3.2) Please refer to Section H data for specifics of #75 + #65 parcels.

e) Environmental Investigations

8-1) Subsequent investigations into hydrocarbon spills & tank leaks (S.&TL) determined that NYS-DEC recorded 4,781 spills plus 1,296 tank leaks in Kings County since Dec. 1980.

8-2) Yet, 60 - 66% were remediated or cleaned-up.

9-1) Within a one mile radius from #75 Eckford St., MIB Enviro Consulting counted 47 spills and 19 tank leaks (S.&TL). But, 39 of those 66 S.&TL were recorded as just one gallon each

9-2) Because it is unlikely for a one gallon volume to penetrate approx. 20 to 40 feet depth-to-water (DTW) then form a plume and remain cohesive for up to one mile in semi-turbulent groundwater flows, those 39 S.&TL can be dismissed as NOT apt to affect #75 sub-strata.

9-3) Remaining are 7 S.&TL, of 2 to 7,150 gallons within 1/2 mile radius, plus 20 S.&TL, of 3 to 15,000 gallons within 1/2 to one mile radius.

10-1) Closest spill was 50 gallons at 1/4 mile W-N.W. According to Section F - Groundwater Contours Map, that 50 gallon volume penetrated approx. 35 feet DTW to form a plume that tended to flow W-N.W. toward the East River.

10-2) None of the other S.&TL, within 1/2 mile radius, formed a plume which flowed no closer than 1/4 mile S.W. (200 gal. sp.) or 3/8 mile W-N.W. (50 gal. sp.) or 3/8 mile N.W. (7,150 gal. sp.) or 3/8 mile N-N.W. (50 gal. sp.) or 1/2 mile N.E. (10 gal. sp.)

11-1) Closest tank leak was 5,000 gallons at 5/8 mile S.W. According to Section F Map, its plume tended to flow W-S.W. toward the East River.

11-2) Spill of 13,000 gallons (from ConEd power plant) at 5/8 mile west, formed a huge plume which flowed W-N.W. directly into the East River.

11-3) Spill of 2500 gallons, at 5/8 mile west, formed a plume that flowed directly into East River. Spill of 15,000 gallons, at 7/8 mile S.W. formed a plume which flowed directly into the East River.

11-4) A spill of 5000 gallons, at one mile S.E,, formed a plume which flowed directly into English Kills Canal. A 100 gal. sp., at 5/8 mile E-S.E., formed a plume that flowed into the upper branch of English Kills Canal.

11-5) An 8000 gallon tank leak, at 3/4-7/8 mile N-N.E., formed a plume which flowed directly into Newtown Creek. The 255 gallon spill and 250 gallon spill at 3/4 mile north, both formed plumes which flowed north into Newtown Creek.
And, a 60 gallon spill, at 7/8 mile S-S.E., formed a plume which flowed easterly into the lower end of English Kills Canal.

12-1) Thus, NONE of those 27 S.&TL formed a plume which is analyzed as NOT entering #75 sub-strata; up to the present time.

f) Superfund Sites, NPL & SPL at 2 Miles Radius

13-1) Among 24 Superfund Sites in Kings County, National Priorities List (NPL) as designated by EPA under CERCLA and State Priorities List (SPL) as identified by NYS-DEC under SARA, there are 8 Sites within a 2 miles radius.

13-2) Closest is an SPL, at 1/2 mile east, whose plume flowed easterly into Newtown Creek.

13-3) Closest NPL is at one mile E-N.E., whose plume flowed southerly into Newtown Creek.

13-4) An SPL, at one mile S.E., formed a plume which flowed directly into the lower branch of English Kills Canal.

13-5) The 2 SPL, at 1-1/4 miles S.E., formed plumes which flowed W-N.W. into the lowest end of English Kills Canal.

13-6) An SPL, at 1-3/8 miles S.W., formed a plume which flowed directly into Wallabout Channel; and the NPL, at 2 miles S.W., formed a plume which flowed E-N.E. into Navy Yard Basin.

14-1) Thus, analyzed are that NONE of those 8 Superfund Sites formed a plume which affected #75 sub-strata; up to date.

Notes: 1. This MIB Enviro Consulting report **E.A. - 2,025** Exceeds minimum requirements for ASTM E-1527-05 Phase I Enviro Assessment report. Additional information is provided in the Enviro Analysis Section as: One mile radius for spills & tank leaks, not 1/2 mile as promulgated under E-1527-05 Standard Practice For Due Diligence.
And, 2 miles for Superfund Sites (CERCLA, NPL & SPL) not 1/2 mile radius !
Plus analyses for E-MR and radon gas, which are Optional under E-1527-05.

2. Areas in #75 Eckford St. were all accessible; including the entire shop and storage areas plus office and bathroom.

3. This inspection is not a reflection of property value.

4. This is not a "Code" inspection.

5. Condition of #75 parcel *does* need to improve, since this building appears to have enviro concerns; from stains inside, plus sub-surface contamination from adjacent south metal plating operations; as explained to Mr. Rafi Elbaz..

We trust this extensive information, and its analysis, fulfills requirements for Mr. Rafi Elbaz of SINSSA Corp.; as well as for a selected financial institution.
It has been our privilege to be of service.

Very Truly,

Malcolm I. Barkan, P.E.
President, Enviro & Structural Engineer
Adj. Assoc. Prof. St. Johns Univ.

MIB :
Enclosures.

A. SITE LOCATION and BUILDING

1.0 Site Location & Major Roads for Access

1.1- The parcel at #75 Eckford St. is located within 3 miles from 16 important institutions and features in this Northwest quadrant of Brooklyn.
At 1-3/8 miles south is Woodhull Medical & Mental Ctr.; at 2-3/4 miles S.W. is Brooklyn Boro Hall; at 2-1/2 miles S.W. are Brooklyn Caledonian Hospital and L.I. Univ.; Pratt Institute is 2 miles S-S.W.; City Industrial Park, formerly N.Y. Naval Shipyard, is 1-5/8 to 2-1/2 miles S.W., McCarran Park is 2 blocks west, and Calvary Cemetery is one mile N.E.

1.2- Williamsburg Bridge is one mile S.W.; Manhattan Bridge is 2-1/2 miles S.W.; Brooklyn Bridge is 3 miles S.W.; on Greenpoint Ave., J.J. Byrne Memorial Bridge over Newtown Creek is 3/4 mile N.E.; the Kosciusko Bridge of B-Q. E. is one mile E-N.E.; Bklyn-Union Gas Works is 5/8 to 1 mile E-S.E.; Newtown Creel, the busiest commercial waterway at Bklyn-Queens border, is one mile north to 1-1/4 miles east; the 22 docks & piers along the East River are one mile N.W. to 1-1/2 miles S.W.

1.3- The #75 Eckford St. premises is positioned within 2-1/4 miles from 23 major roads.
In a north-south direction are 16 key routes: the B-Q. E., Rte 278; Broadway; Manhattan Ave., McGuiness Blvd., Humbolt St., Union Ave., Bushwick Ave., Kingsland Ave., Carlton Ave., Morgan Ave., Wythe Ave., Marcy Ave., Washington Ave., Kent Ave., and Berry St.

1.4- In an east-west direction are 7 vital thorofares: Greenpoint Ave., Metropolitan Ave., Grand St. east into Grand Ave., Flushing Ave.; the L.I.E., Rte 495; Myrtle Ave., and Hunters Pt. Ave.

1.5- Thus, access to #75 Eckford St. is relatively easy from all directions.

2.0 Investigated Building - Description & Condition, History & DoB Info

2.1- The building at #75 Eckford St. is 20.11' x 69.09' = 1,865.66 SF; built, as best as DoB data can verify, in circa 1933, say 80 years in use.

2.1.1- Originally used as a residence, then transformed into a chicken market in the latter 1940's; then a warehouse in the latter 1950's, into a welding shop in 1964; then Roy's Auto Repairs in 1994 (19-1/2 years).

2.2- Residue on concrete slabs emanated from numerous vehicles in Roy's shop, plus hydrocarbons that dripped from vehicles, on his N.W. corner lift.

2.2.1- Adjacent south (at #65) contamination may have entered #75 sub-surface strata from 33 years as a metals plating shop; whose fumes can be detected thru cracks in #75 slabs.

2.2.2 Also, obsolete and discarded parts have likely dripped hydrocarbons onto slab surfaces in the west third of #75 shop and into the west storage space.

2.3 - All of this will become irrelevant, since new construction will require demolition of existing slabs, plus planned removal of the upper 6-8 feet of soil, for a future cellar.

2.3.1- Exterior of #75 building is shown in photo #1; interiors and utilities in photos #2 thru 14, including the 2 waste oil tanks under the staircase in photos #5 & 12.

2.4 Utilities - Electric, Heat & Water

2.4.1- Existing electric equipment is located in the S.E. corner, photo #9.

2.4.2- There is one meter, and a main switch of 200 amps @ 240 volts.

2.4.3- Panel has 13 breakers (with 8 blanks) as: 3 @ 220 volts, 100A. + 2 x 50A.; plus 4 x 20A. & 6 x 15A.

2.4.4- Water enters thru the south third of #75 premises, then piped to a bathroom, as seen in photos #12A & 13A. Water meter is in shop S.E. corner, hidden by vehicle parts; which could not be moved away.
2.4.5- Heat in #75 shop is from the 2 space heaters in photos #4, 7 & 13; both gas-fired.
2.4.6- The 2 waste oil tanks are said by Roy Sibblies as each 275 gallons; drained every 8 wks.
2.4.7- Condition of these 2 waste oil tanks could not be ascertained, they are hidden beneath the 13-steps staircase; up to mezzanine level.

2.5 Vegetation and Trees Conditions
2.5.1- Trees on Eckford St. are shown in photos #15, 17-19 plus #20 on Driggs Ave.
2.5.2- All appear to be in very healthy conditions, no signs of discolorations or distortions.
2.5.3- thus, NO indications of sub-surface distress from underground contamination.

2.6 Electric Power Group (E-MR)
2.6.1- Summary Letter section **c) #5-1 to 5-3 in page 3,** confirms that power conduits are under Eckford St., NO pole-mounted electrical conductors.
2.6.2- Thus, electro-magnetic radiation (E-MR) is NOT a concern to #75 premises.

2.7 Radon Gas Calculations
2.7.1- Summary Letter section **c) #6-1 to 6-3 in page 3,** presents calculations for radon gas average in N.Y.S., in Kings Cty., in Greenpoint, and the Probability of radon gas in future #75 cellar.
2.7.2- As 22.75% of the 4.0 p-c "Action Level" and 0.073% Probability in #75 (future) cellar, both ranges are *negligible* potential radon gas danger.

B. ADJACENT & NEARBY PROPERTIES
3.0 Adjacent Properties and Hazmat - Plus Adjacent South Parcel
3.1- Summary Letter section **b)#3-1 to 3-3 in page 2,** indicates that adjacent north are 2 garages, which belong to the 3-story Adult Apt. House on Eckford St., corner of Driggs Ave.
3.1.1- But, adjacent south, at what is now storage & offices for theatrical props, since Jan. 2013, was a metals plating shop for 33 years !
3.1.2- Previous experience for 2 other plating shops in Bklyn, revealed sub-surface contamination from spills plus parts laid on slabs, that de-laminated plating chemicals thru slabs into ground below.
3.1.3- When metals and chems migrate down 11-12 ft. into groundwater, it forms a plume of contamination that flows into adjacent sub-strata !
Please refer to printouts in Section H, Part II.
It is likely that sub-surface, and groundwater beneath #75 slabs <u>may</u> be contaminated !
3.1.4- Adjacent west, on McGuiness Blvd. are stores, residences, restaurants and offices.

4.0 Nearby Properties - Environmental Recognized Condition (E.R.C.)
4.1- Summary letter section **b) #4-1 to 4-3 in pages 2 & 3,** identify properties nearby to #75.
4.2- Evaluated are that NONE are perceived as having posed enviro threats to #75 sub-strata.
4.3- Thus, E.R.C. is evaluated as negative; that is, of NO concern to #75 parcel.

C. ENVIRONMENTAL INVESTIGATIONS

5.0 Section A - Summary

5.1- The preceding Section A detailed features and utilities in #75 Eckford St.; plus no E-MR concerns, and *negligible* radon gas danger.

5.2- Yet, adjacent south parcel, calculated as 10,157.81 SF -- from printouts in Section H -- was a metals plating shop for about 33 years; up to 2008, when reconstruction began, that was not completed until Jan. 2013.

5.2.1- As noted in the previous section for Adjacent Properties, it is likely that plating metals + chemicals penetrated adjacent south #65 slabs, then migrated down 11-12 feet to groundwater -- passing north into #75 sub-strata.

5.2.2- Therefore, Phase 2 sub-surface investigations are Recommended !

5.3- Visibly stained concrete slabs inside #75 auto repairs shop are scheduled for removal, upon demolition of #75 shop; so their contaminated condition becomes irrelevant.

5.3.1- Existing utilities and space heaters will similarly be removed upon demolition.

6.0 Kings County Spills & Tank Leaks

6.1- Summary Letter section **e) #8-1 & 8-2 in page 3,** indicates that approx. 33% of the 4781 spills and 1296 tank leaks remain to be remediated.

6.2- That calculates as 1578 spills + 428 tank leaks awaiting funding for remediation or clean-up

6.3 Spills & Tank Leaks, One Mile Radius, with Hydrogeology

6.3.1- Summary Letter section **e) #9-1 to 12-1 in pages 3 & 4,** arrays the 7 S.&TL within 1/2 mile radius plus 20 S.&TL within 1/2 to one mile radius.

6.3.2- Closest spill, of 50 gallons at 1/4 mile W-N.W., formed a plume which tended to flow W-N.W. to the East River.

6.3.3- None of the other 6 S.&TL within 1/2 mile formed a plume which flowed no closer than 3/8 mile N.W. (7,150 gal. sp.) or 1/4 mile S.W. (200 gal. sp.).

6.4- Within 1/2 to one mile radius, none of the 20 S.&TL formed a plume that flowed no closer than 5/8 mile S.W. (5000 gal. TL) which flowed W-S.W. into the East River; or 5/8 mile west (13000 gal. sp.) or 5/8 mile west (2500 gal. sp.) or 7/8 mile S.W. (15000 gal. sp.) or one mile S.E. (5000 gal. sp.) or 3/4-7/8 mile N-N.E. (8000 gal. TL).

6.4.1- Thus, analyzed are that NONE of those 27 S.&TL formed a plume which entered #75 sub-strata; up to date.

6.5 Superfund Sites, NPL & SPL at 2 Miles Radius, with Hydrogeology

6.5.1- Summary Letter section **f) #13-1 to 14-1 in page 4,** located each of the 8 Superfund Sites within a 2 miles radius from #75 property.

6.5.2- Closest is an SPL, at 1/2 mile east, whose plume flowed east into Newtown Creek.

6.5.3- Closest NPL is one mile E-N.E., whose plume flowed southerly into Newtown Creek.

6.6- None of the other 4 SPL + one NPL formed a plume which flowed no closer than 1-1/4 miles S.E., or 2 miles S.W.

6.6.1- Thus, analyzed are that NONE of those 8 Superfund Sites formed a plume which affected #75 sub-strata; up to date.

D. CONCLUSIONS - From August 6, 2013 Investigations
7.0 Conclusions - With Business Environmental Risk (B.E.R.)

+ The following Conclusions were derived from a combination of 8 investigative procedures which significantly Exceed ASTM E-1527-05 Standard Practice For Environmental Site Assessments: Phase I Process, Scope & Options, for this #75 Eckford St. parcel.

+ MIB Enviro Consulting was not engaged to detect fraud or subterfuge. These Conclusions encompass "Due Diligence" under CERCLA-based presumption of "Innocent Landowner".

+ **Note:** Kings County Dept. of Buildings data, plus Environmental Control Board violations must derive from Property Title Search documents.

7.1 - The On-Site Investigations revealed enviro concerns from hydrocarbon spills onto concrete slabs in Roy's Auto Repairs shop; photos #2-4, 8, 11, 12A & 13A, and;
7.1.1- There are 2 waste oil storage tanks, whose condition cannot be verified by Roy, nor by observation, since they are underneath a stairway to a mezzanine; photos #5 & 12.
7.1.2- Visibly contaminated surfaces infer that hydrocarbons + chemicals penetrated concrete slabs into ground below. Therefore, Recommended is Phase 2 borings for sampling toward Lab analyses.

7.2 - Adjacent & Nearby Properties - Except for adjacent south property at #65 Eckford St. -- are essentially perceived as NOT having posed enviro threats to #75 sub-strata.
7.2.1- Adjacent south building was a metals plating shop for about 33 years. Previous experiences for investigations of 2 other plating shops confirmed that metals + chemicals "escape", which penetrate concrete slabs into soil & groundwater below.
7.2.2- Thus, it is likely that heavy metals and chemicals DID intrude into #75 sub-strata, then into groundwater.
7.2.3- It is logical that Phase 2 soil + groundwater sampling will exhibit RCRA metals, plus "derivatives & isotopes" of chemicals that penetrated #65 slab during those 3.3 decades !

7.3 - Electrical Power Group (E-MR) and Radon Gas Calculations; in
7.3.1- Summary Letter section **c) #5-1 to 5-3 in page 3,** confirms that electrical conduits in this area of Brooklyn are beneath Eckford St.
7.3.2- Thus, E-MR is NOT a concern to #75 premises.
7.3.3- Radon Gas calculations in section **c) #6-1 to 6-3 in page 3,** indicate there is *negligible* radon gas danger; and, the Probability of radon gas in future #75 cellar has *negligible* potential danger to cellar users.

7.4 - Section E, Part II, Enviro Map shows 27 S.&TL within a one mile radius, of 2 to 15K gals.
7.4.1- Analysis in Summary Letter section **e) #9-1 to 12-1 in pages 3 & 4,** convey that NONE of these 27 S.&TL formed a plume which entered #75 sub-strata; up to the present time.

7.5 - Analysis in Summary Letter section **f) #13-1 to 14-1 in page 4,** located each of the 8 Superfund Sites within a 2 miles radius.
7.5.1- NONE of those 3 NPL + 5 SPL formed a plume which affected #75 sub-strata; up to date.

7.6 - Therefore, Business Environmental Risk (B.E.R.) is contingent upon the extent of contaminated soil found below #75 floor slab and in its groundwater.
7.6.1- However, soil will be removed during demolition procedures -- and transported to a Certified dump site that can accept soil contaminated with hydrocarbons & chemicals -- then a Geotextile placed on top of a plastic sheet, on top of remaining soil, to contain [or encapsulate] residual contamination.

7.7 Phase 2 - Borings & Soil Sampling for Lab Tests
7.7.1- Yes, based upon the preceding Conclusions, Recommended are Phase 2 borings for soil + groundwater sampling; then 5 tests per sample for VOC, Semi-VOC, Metals, PCBs & Pesticides, per NYC-DoB + NYS-DEC required protocols.
7.7.2- Phase 2 procedures will confirm, or refute, presumptions of contaminated soil & groundwater -- from Roy's Auto Repair activities during 19-1/2 years, plus adjacent south metals plating operations for some 33 years.

7.8 Limitations For Development
7.8.1- Yes, to the extent that sub-surface conditions shall be ascertained.
7.8.2- Then procedures enacted for Phase 3 removal of contaminated soil. Preliminary calculations suggest interior 1,033 SF x 8 ft. depth = 8,300 CF = 306 CYds.

We trust this very extensive information, and its analysis, fulfills requirements for Mr. Raphael Elbaz of SINSSA Corp.; as well as for a selected financial institution.

Sincerely, MOB.

DOCUMENTATION

E. Environmental Map of Greenpoint, Brooklyn, Notated

The next sheet contain All of NYS-DEC Enviro data for Greenpoint 11222, extracted from 218 pages, and marked on this Map ! Hydrogeological analysis was performed to determine directions of flow for plumes created by S.&TL over one gallon volume.

NONE of these 27 S.&TL plumes flow beneath #75 Eckford St. parcel.
Spills are marked "X", volumes over one gallon are noted; and tank leaks are marked "T". Brownfield and Superfund Sites are marked "S".

F. Groundwater Contours Map

Page 2 following contains a reproduction of a Groundwater Contours Map for this north-west Brooklyn area.

G. Photographs of Premises, and Surrounding Areas

Pages 3 to 11 following contains 22 color photos of the premises at #75 Eckford St.; and Its surrounding properties.

H. Kings County Dept. of Buildings Information

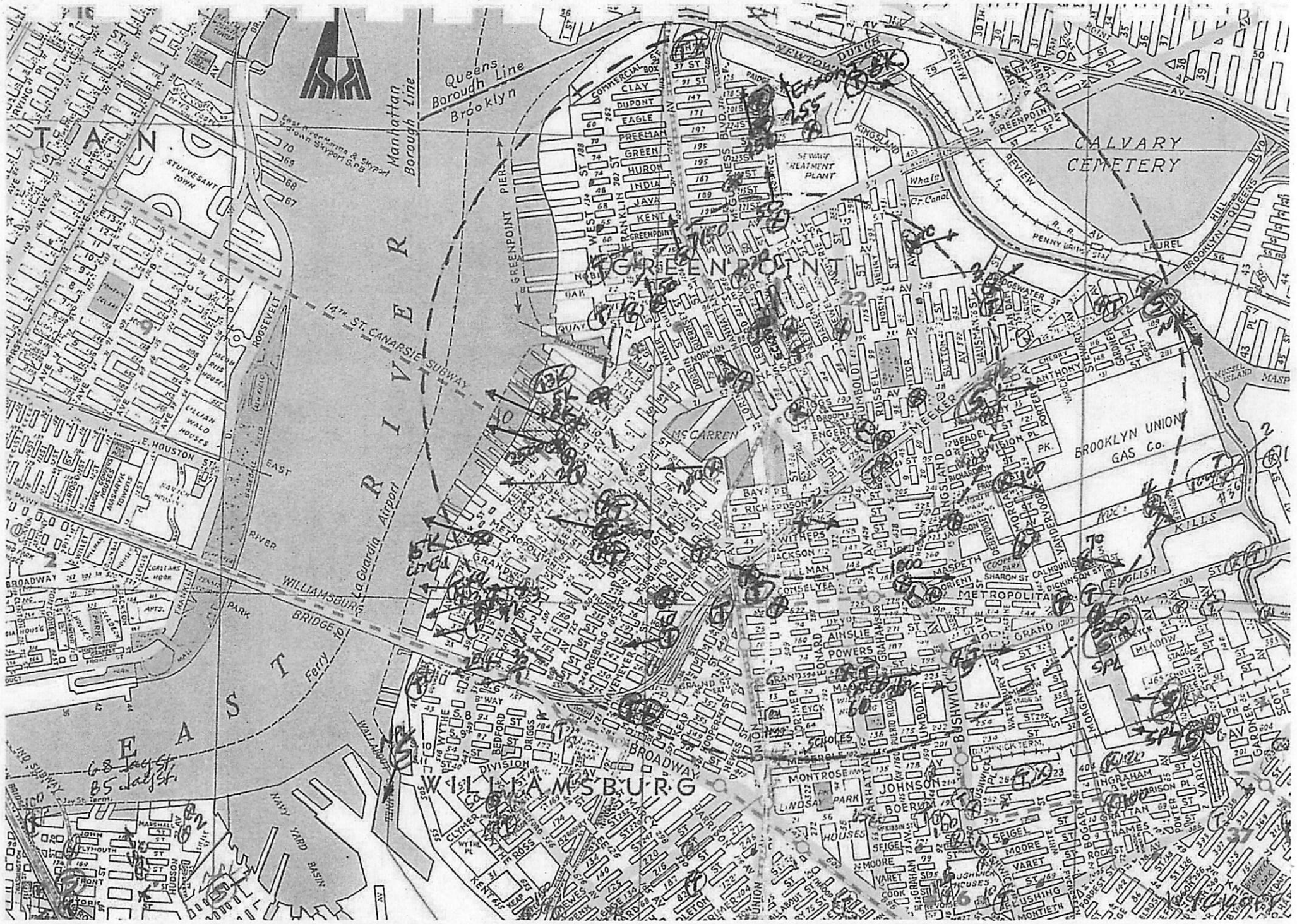
Pages 12 to 49 following contains information relevant to this parcel at #75 Eckford St.; plus #65 Eckford St. parcel information.

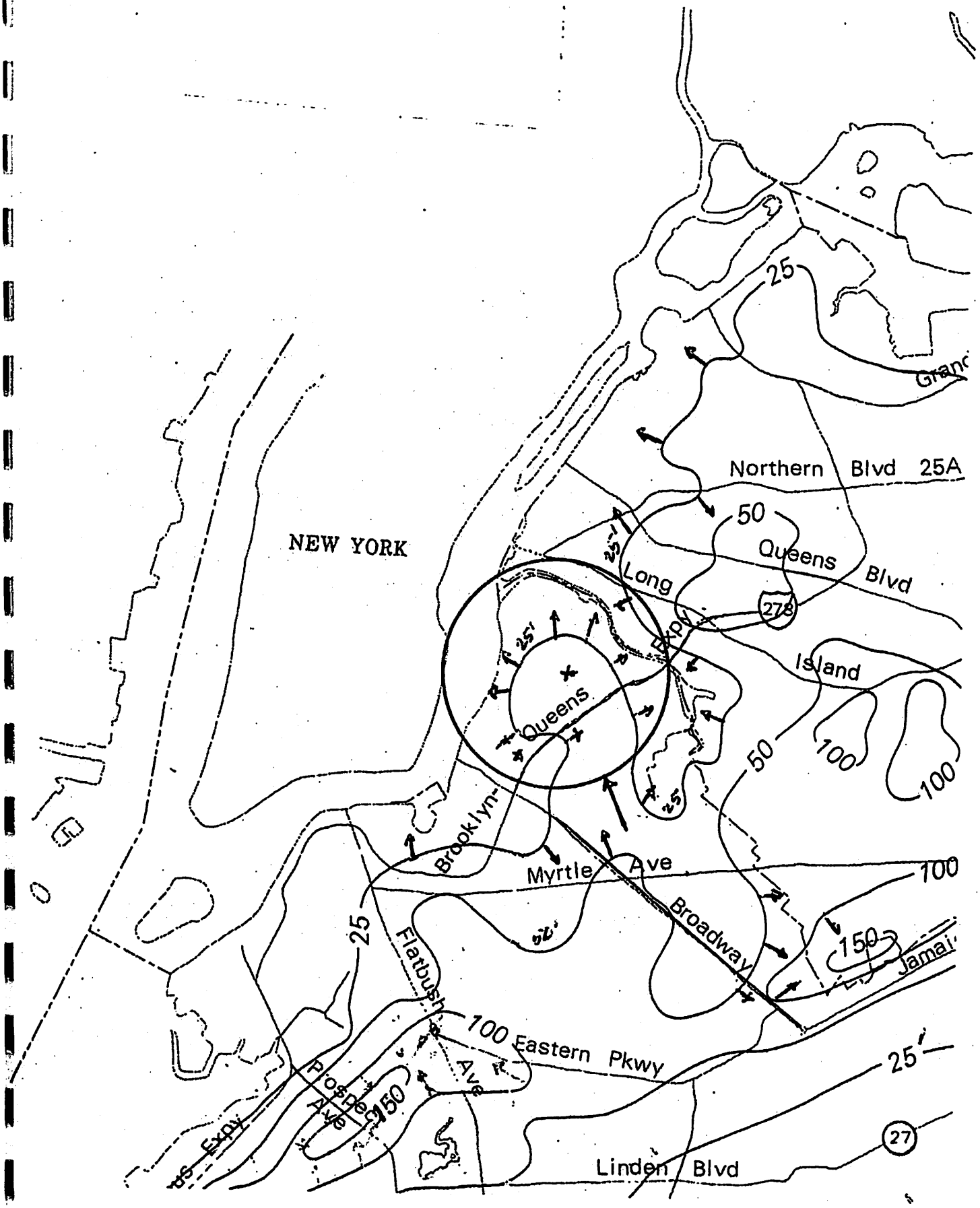
I. Professional Liability Insurance and Resume` for Prof. Malcolm Barkan, P.E.

Pages 50 to 60 following contains Liability Insurance + Disability + Workers Comp Ins. forms; and a relatively complete Resume` for Prof. Malcolm I. Barkan, P.E. from 1954 to date.

J. Sanborn Maps

Are Not required for #75 Eckford St.; Its 80 Year History is Known.


Queens Borough Line
Brooklyn
Manhattan Borough Line
East River Marine & Skyport
Brown Skyport S.P.B.
STUYVESANT TOWN
ROOSEVELT
14th ST. CANARSIE SUBWAY
La Guardia Airport
EAST RIVER
WILLIAMSBURG BRIDGE
Ferry
PIER
GREENPOINT
COMMERCIAL BOX
CLAY
DUPONT
EAGLE
FREEMAN
GREEN
HURON
INDIA
JAVA
KENT
GREENPOINT
SEWAGE TREATMENT PLANT
Whale Cr. Canal
CALVARY CEMETERY
REVIEW
PENNY BRIDGE STA.
LAUREL
BROOKLYN-QUEENS BLVD.
BROOKLYN UNION GAS Co.
McCARREN
PK.
BROADWAY
WILLIAMSBURG
NAVY YARD BASIN
METROPOLITAN
GRAND
BUSHWICK
JOHNSON
MONTROSE
LINDSAY PARK
HOUSES
SCHOLES
AINSLIE
POWERS
MAGAW
MARCY
HEWES
KENT
DIVISION
BEDFORD
DRIGGS
WYTHE
CLYMER
ROSS
MARSHALL
PLYMOUTH
FRONT
JOHN
HUDSON
FRANKLIN
PARK
EAST
RIVER
E. HOUSTON
LILLIAN WALD HOUSES
JACOB RIIS HOUSES
ALGONQUIN HOUSES
ALGANYK TOWERS
CORLEARS HOOK
BASTADO FIELD
NEWTOWN
DUTCH
KINGSLAND
GREENPOINT
MEEKER
RUSSELL
BEADEL
VANDERVOORT
MORGAN
ENGLISH
KILLS
MEADOW
STAGG
GARDNER
SCOTT
MORGAN
GRAHAM
GRATTAN
HAMES
ROCK ST
SEIGEL
MOORE
VARET
COOK
MOORE
PUSHING
MONTIETH
BUSHWICK HOUSES
BUSHWICK TERM.
MASPETH
ORIENT
CONSELYEA
JACKSON
WITHERS
RICHARDSON
BAYARD
ENGERT
HAUSMAN
SUTTON
ANTHONY
PORTER
CHELSEA
STEWART
MARSEL ISLAND
MASP
BRIGGS
NORMAN
LEONARD
GRAHAM
MANHATTAN
BOERUM
SPL

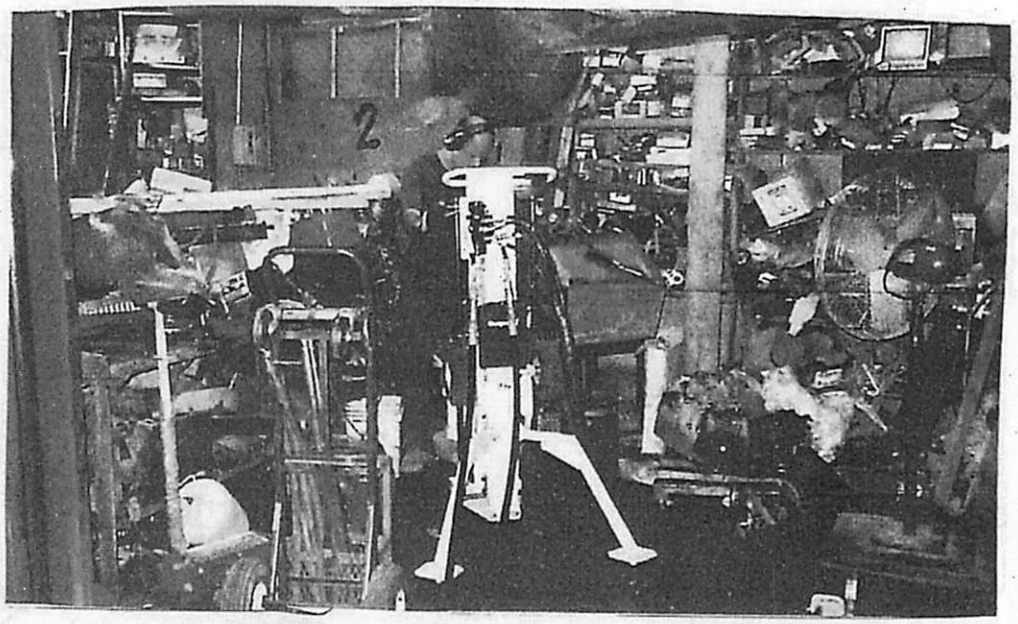

NEW YORK
Northern Blvd 25A
Queens Blvd
Long Island Exp
278
Queens
Brooklyn-Queens Expy
Myrtle Ave
Broadway
Flatbush Ave
Eastern Pkwy
Bedford Ave
Linden Blvd
Jamai
Grand
25
50
100
150
27

1.

Front (East) Face of #75 Eckford St., Roy's Auto Repair

2.

N.W. Corner of Roy's Auto Repair Shop; Under Vehicle Lift. Observe Stains on Slab !

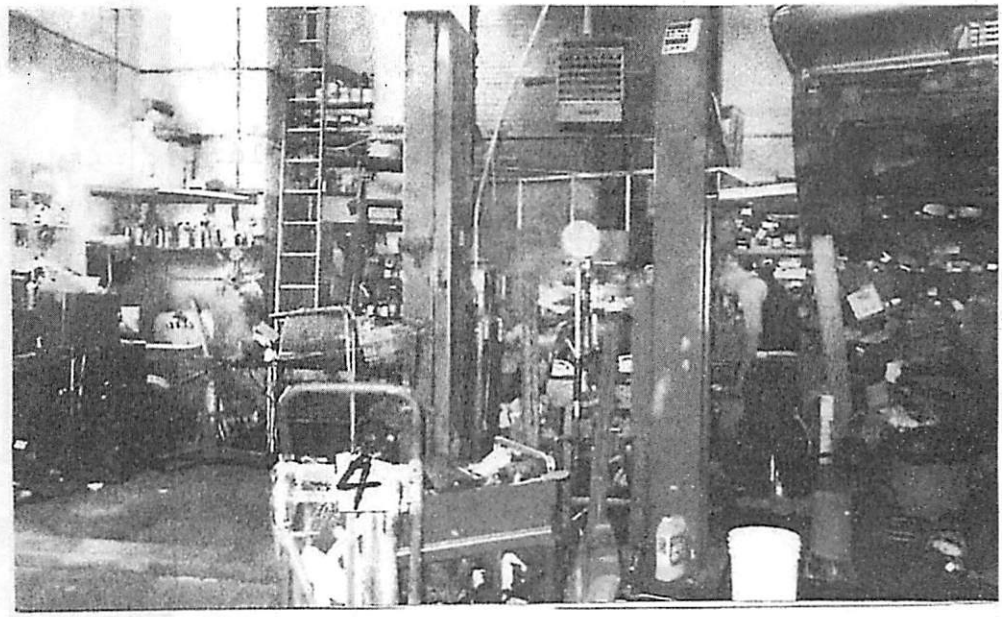


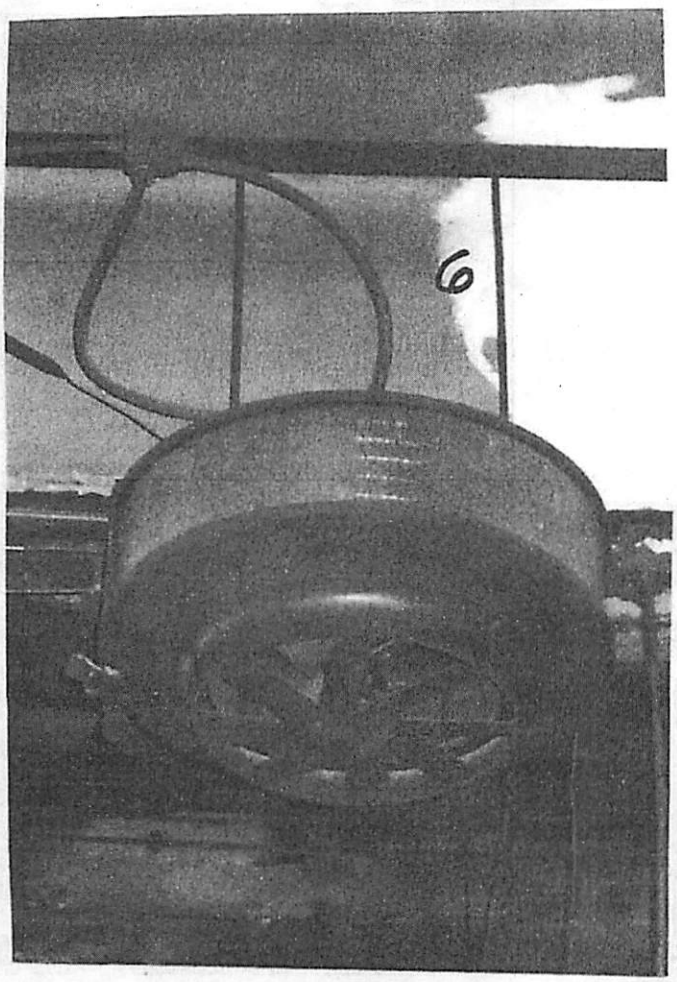
3.

Congested Parts Storage and Discoloration on Concrete Slab Below Lift Structure.

4.

Looking Into S.W. Corner of Shop, Space Heater for West Half of Shop.



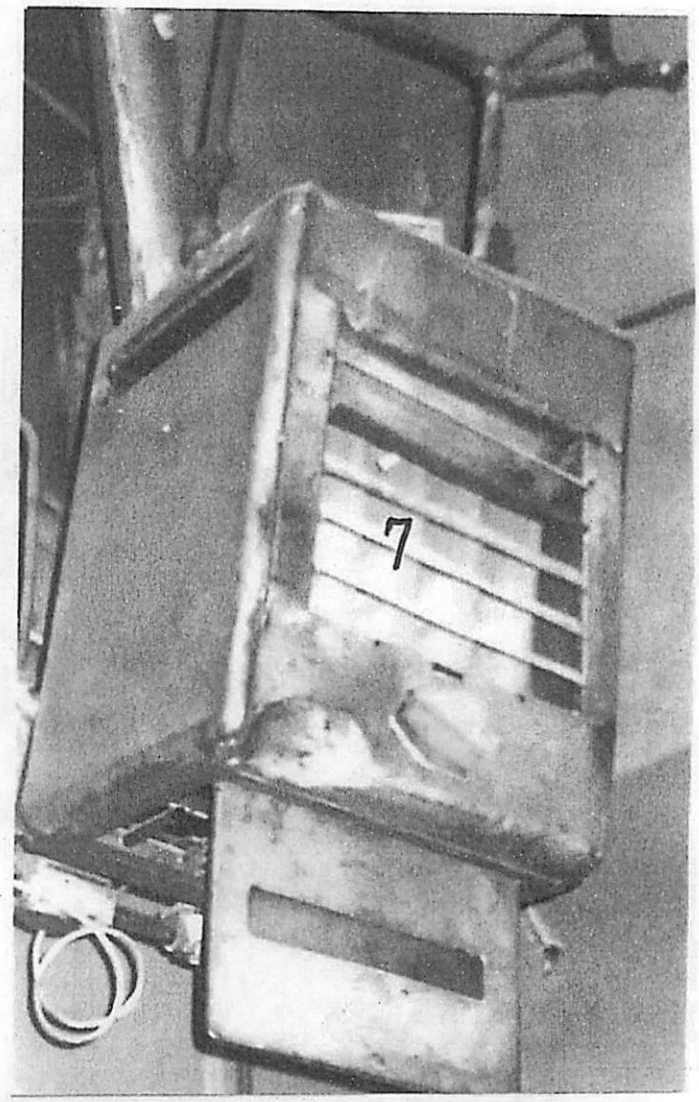


6. Vent Thru Roof in Middle of Shop; See Roof Leaks Behind.

5. To Mezzanine are 13 Steps = 8'-8"; Roy Said his 2 x 275 gallon Waste Oil Drums are Beneath Stairway !

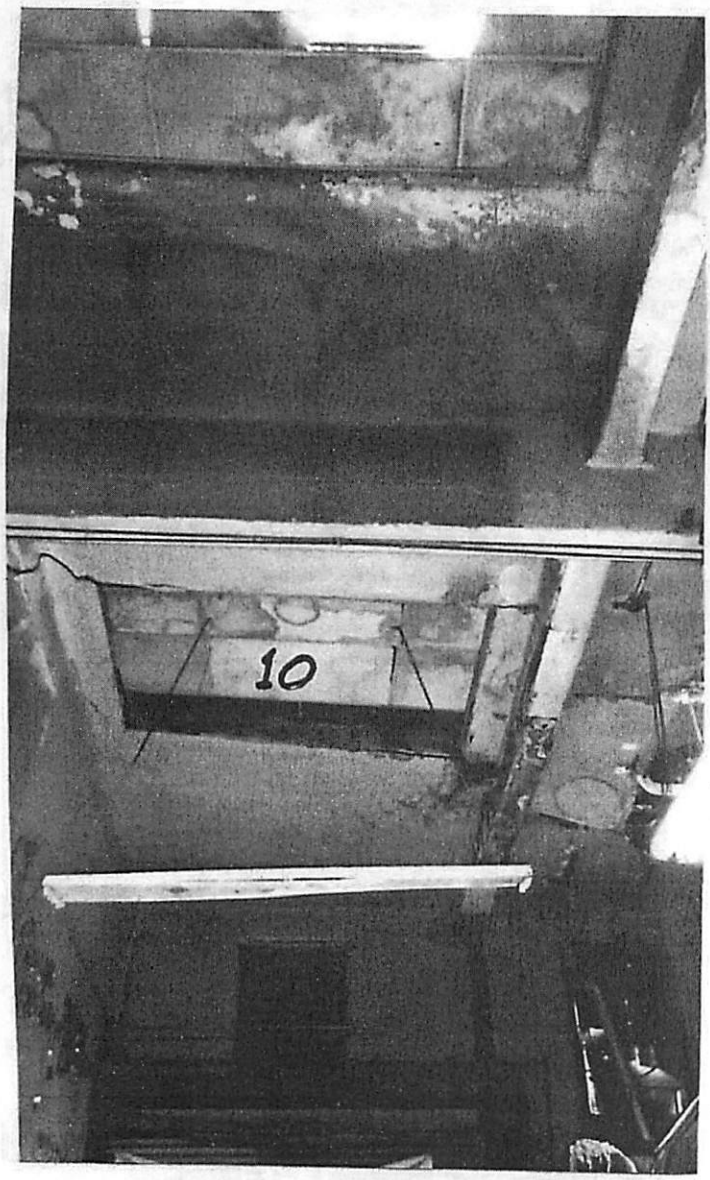
7.

Space Heater, Gas-Fired in S.W. Corner of Shop; Appears Very Old.

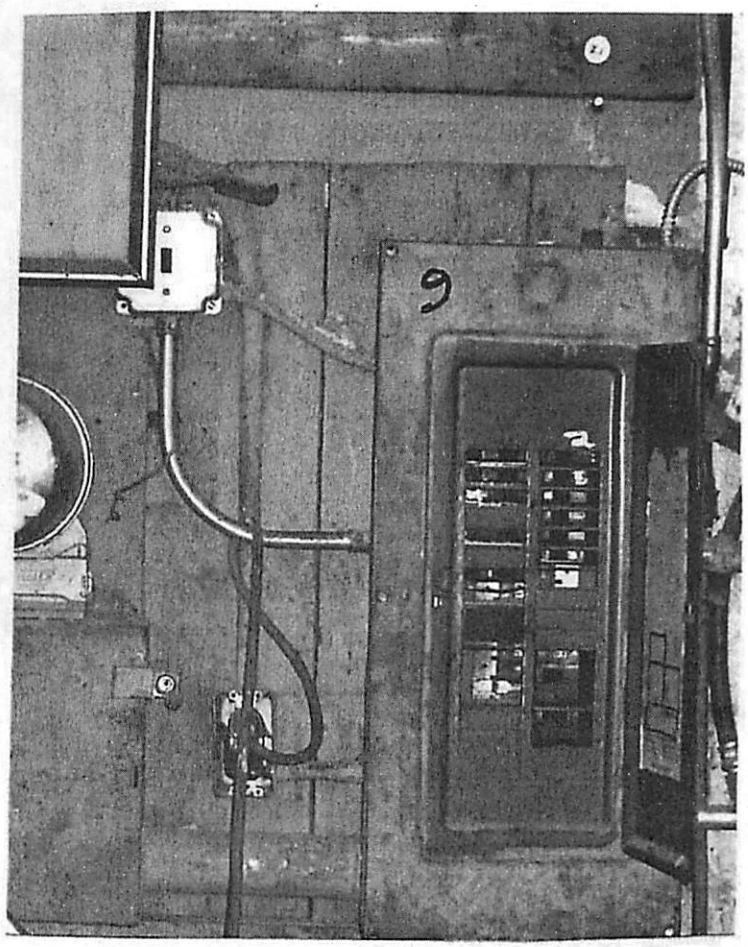


8.

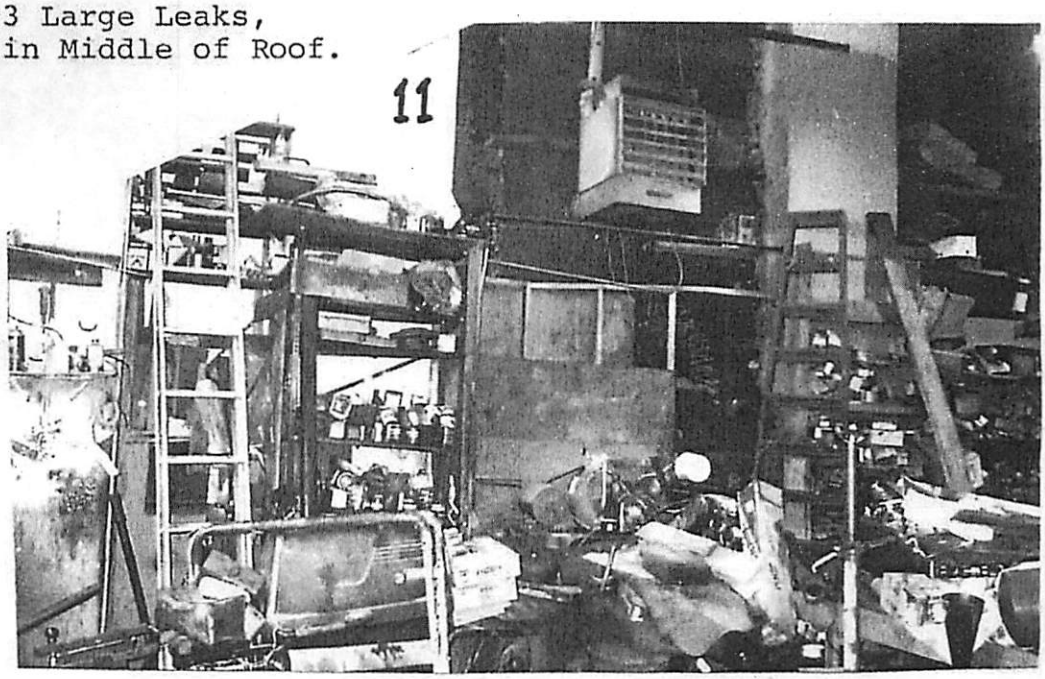
S.W. Corner of Shop is Congested with Obsolete Vehicle Parts; Observe Considerable Stains on Floor Slab !



10. Ceiling Exhibits 3 Large Leaks, Around Skylight & in Middle of Roof.



9. Electric Meter & 200 A. Main Sw. 240 V. in Circuits Cabinet, S.W. Corner of Shop. Has 13 Breakers : 220V. =3, of 100A. & 2 x 50A., plus 4 x 20A. & 6 x 15A. Breakers.



11. Overview of Shop West End; See Storage Area in Rear, Approx. 8 ft. Depth x 30 ft. Width.

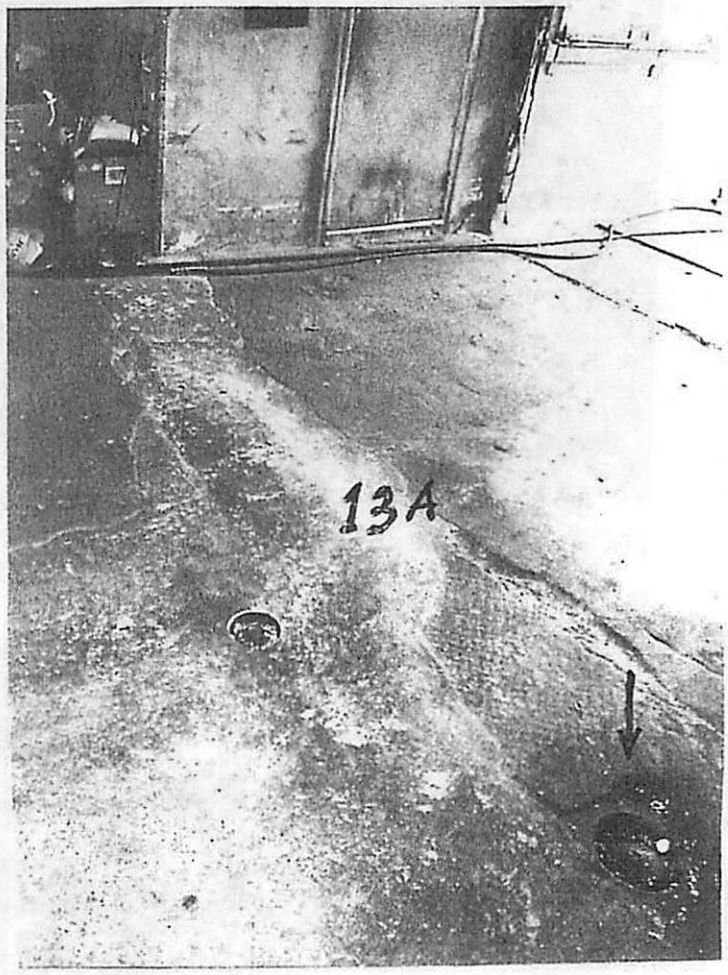
12.

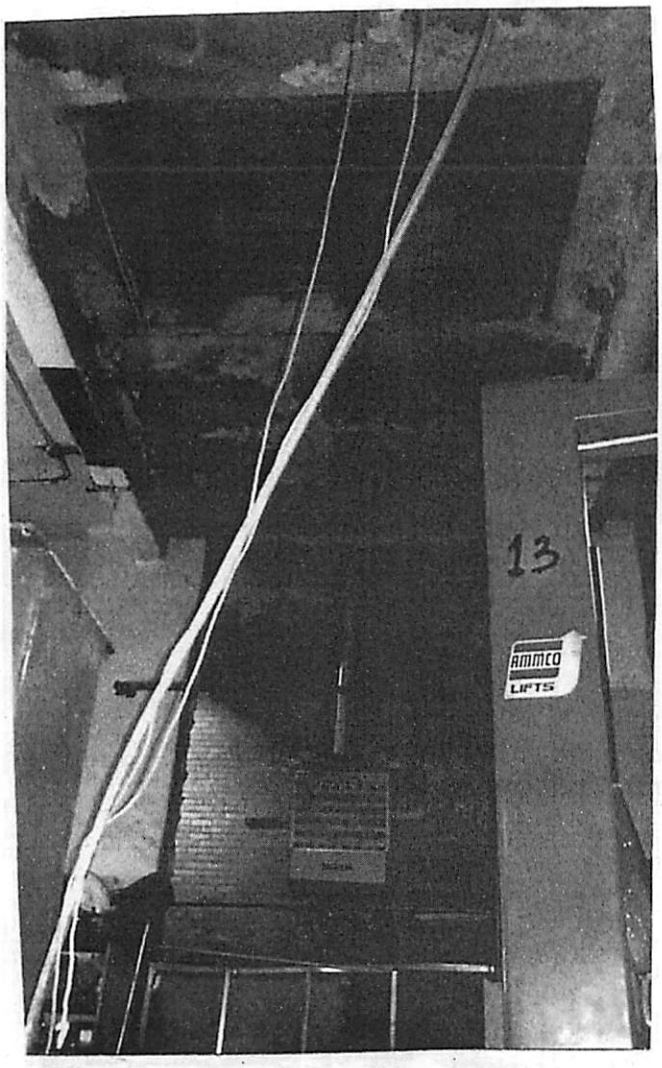
Looking West from Inside #75 Shop; the Front Roll-Up Door is Ahead; Bathroom & Office are at Left.

Electrical in S.E. Corner at Right.

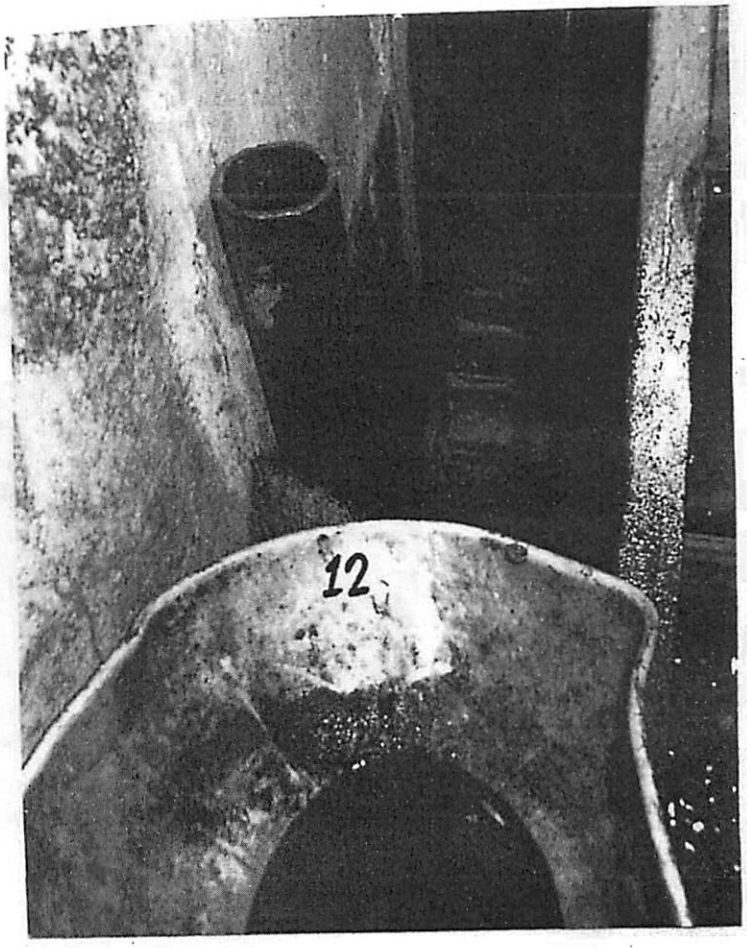
13.

North-South Bump in Shop Slab is Water Pipe, from Supply (Arrow) to Bathroom.



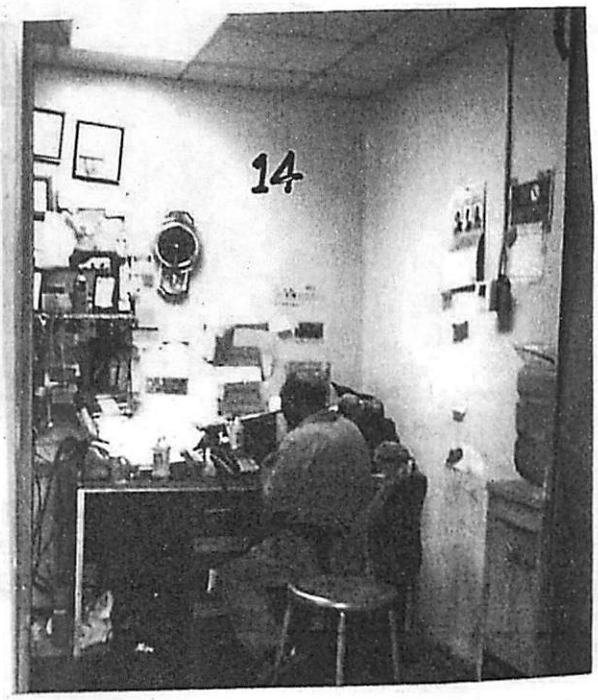


13. See Considerable Roof Leaks in Rear Third of Shop Roof.



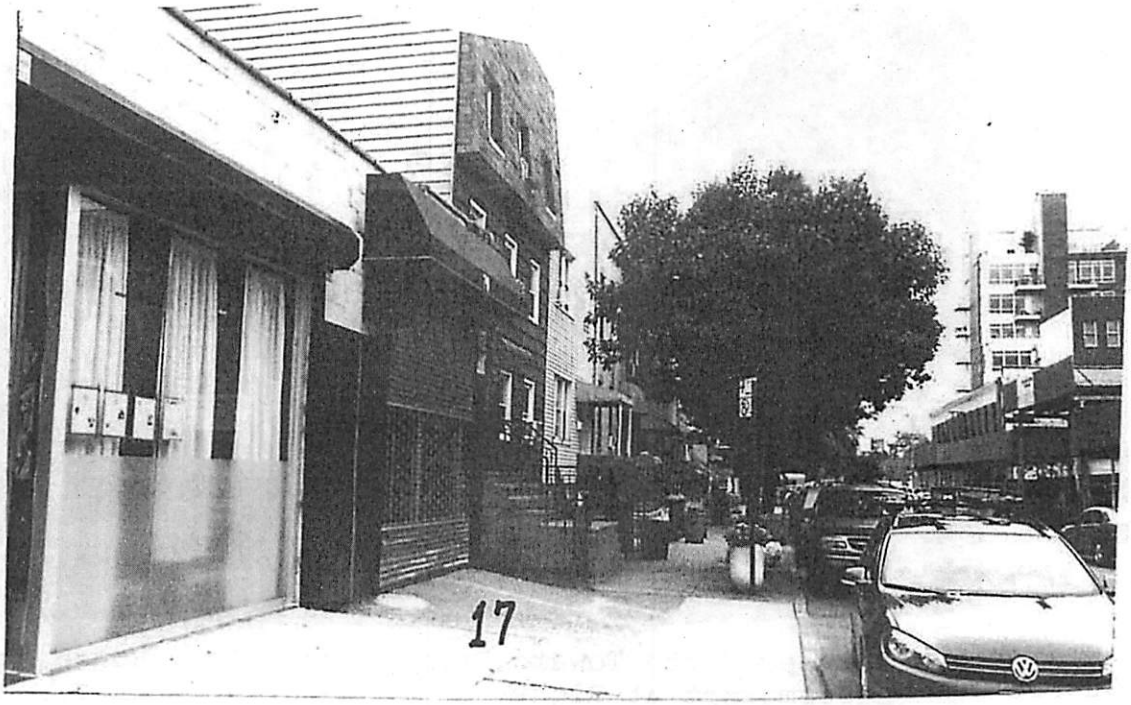
12. Waste Oil Filler Funnel and Vent Pipe; 2 x 275 gallon Drums Under Stairs.

14. Hello, Roy Sibblies in #75 Shop Office.



15. Roy Sibblies in Eckford St., with a Customer of His Shop; View N.W. Toward Driggs Ave.

16. Looking S.W. from #75, at Adjacent South #65, 2-Story Offices and Storage of Theatrical Props; then New Construction to Engert Ave.



17. Overview South Down Eckford St. Toward Engert Ave.; All Residential.

18. East Across Eckford St. is a Day Care Center; then Residential.

19. Overview North Toward Driggs Ave., Apt. House at Left, Supermarket at Right.

20. View N.E. Across Eckford St., Supermarket to Driggs Ave.

Phase II Report

E-138

PHASE 2

SUB - SURFACE INVESTIGATION

Conducted At :
ROY'S AUTO REPAIR SHOP, HI-BAY
#75 ECKFORD STREET
GREENPOINT, BROOKLYN, N.Y. 11222

Conducted For :
75 ECKFORD STREET, LLC
MR. RAPHAEL ELBAZ
300 WYTHE AVENUE, APT. 3J
BROOKLYN, N.Y. 11211-4153

PROJECT S - S.I. - 2,022
Authorized July 25, 2013

Prepared By :
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(631) 981-2122
mibconsulting8@gmail.com

S - S. I. - 2,022

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MIB Environmental Consulting

ENVIRONMENTAL & REMEDIATION ENGI

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July 31, 2013
(646) 247-0900
rafielbaz@gmail.com

Mr. Raphael Elbaz
75 Eckford Street, LLC
#330 Wythe Avenue, Apt. 3J
Greenpoint, Brooklyn 11211-4153

S - S.I. - 2,022

Dear Mr. Elbaz,

Based upon concerns from more than 15 years as an auto repairs shop, plus arbitrary e-designation by NYC - O.E.R., the Purposes of this Sub-Surface Investigation S - S.I. - 2,022 are threefold :

First, To Determine sub-surface conditions in the shop of #75 Eckford Street; in which cars & trucks were repaired for more than 15 years as Roy's Auto Repairs; previously used as a welding shop; 30 years previous to that was a warehouse.

Second, To Provide Analyses from results of Certified Lab tests on 4 soil + 2 groundwater samples; retrieved from #75 Eckford St. on July 25, 2013; then to Provide a Summary Table of Results vs. DEC Allowable Cleanup Limits.

Third, To Recommend subsequent Action, to assure that sub-surface contaminants were contained; beneath subsequent building construction.

These Phase 2 procedures were initiated by Mr. Raphael Elbaz, to verify that sub-grade conditions do not contain levels of contamination which exceed DEC-Allowable Cleanup Limits, from shop utilization during the past 45 years.

Concrete slab has visible cracks, as seen in Section G photos of all 6 sampling locations; which allowed hydrocarbons and vehicle chemicals + additives to enter the ground; of which, 6 chemicals and 4 heavy metals penetrated 11.5 feet to groundwater.

Summary Table 4.4 was composed from Certified Lab tests on 4 soil + 2 groundwater samples. A total of 13 chemicals plus 5 RCRA metals and 3 pesticides were identified from those 5 sets of tests on each sample.
Origins of these "derivatives & isotopes" were created during underground heat & pressure, from:

a) B.T.E.X. additives to gasoline, oils, coolants and lubricants, which permeated thru the slab, then seeped into groundwater;
b) Plus chemicals and pesticides used since 1968;

c) Vehicle parts in contact with the slab, having 1950's & 1960's composition, including parts containing chromium, which deteriorated or de-laminated, then entered the concrete slab -- such as : bumpers, side & rear view mirrors, frames around front & rear lights, grilles, antennas and related;
d) Plus parts & additives and cleaning fluids containing lead, barium & selenium; in radiator coolants, transmissions, power steering and A/C systems;
e) Also, low levels of arsenic, barium and lead are indigenous to soils in this section of Greenpoint; and from leaking batteries, cleaners, paint sealants; and additives for cars & trucks.

Yet, NONE of these 13 chemicals + 5 RCRA metals + 3 pesticides exceed DEC Allowable (Regulatory) Cleanup Limits; as arrayed in Table 4.4.

Therefore, when shop slab is removed, and one foot of ground below, soil protection is Recommended, as a plastic sheet over the entire 30 ft. x 65 ft. = 1,950 SF area -- or available 11 mil sheets of high-density polyethylene (HDPE) overlapped at least 12" -- then a layer of GeoGrid; preferably polypropylene, or HDPE.

We trust this extensive information, and its analysis, fulfills requirements for Mr. Raphael Elbaz and Partners; as well as for a selected financial institution.

Very Truly,

Malcolm I. Barkan, P.E.
President, Enviro & Structural Engineer
Adj. Assoc. Prof. St. Johns Univ.

MIB :
Enclosures.

SUMMARY TABLE 4.4

Results From Lab Tests on 4 Soil + 2 Groundwater Samples

Chemicals & Metals	S-1 ppm	S-2 ppm	W-3 ppm	S-4 ppm	W-5 ppm	S-6 ppm	DEC-Allowable Cleanup Limits in ppm
Volatiles							
Acetone			.0081	.021			0.0989
Trichloroethylene	.015						1.3
Anthracene	.118					.206	100
Sec-Butylbenzene					.0014		11.0
Tert-Butylbenzene					.0069		5.9
Semi-Volatiles							
Benzo(a)Anthracene	0.386	0.196		0.904		0.689	11.0
Benzo(a)Pyrene	0.384	0.227		0.28		0.715	11.0
Benzo(b)Fluoranthene	0.298	0.191		0.849		0.639	11.0
Benzo(g,h,i)Perylene	0.128	0.0872		0.317		0.299	100
Benzo(k)Fluoranthene	0.427	0.229		0.922		0.593	56
Chrysene	0.375	0.19		0.88		0.692	56
Fluoranthene	0.585	0.244		1.27		1.35	100
Pyrene	0.545	0.253		1.2		1.15	100
Indeno(1,2,3-cd)Pyrene		0.0986				0.338	5.6
Bis(2-ethylhexyl)Phthalate						0.128	50
Dibenzo(g,h)Anthracene				0.104			1.1
Acenaphthene					0.688		100
Pesticides/PCB's							
4,4-DDT					.00437		47
4,4-DDE					.00661		62
4,4-DDD					.0429		1.4
Heavy Metals, in ppm							
Arsenic	2.57	4.2		3.2	0.009	2.93	16.0
Barium	75	95.3	0.119	57.7	0.20	87.4	350.0
Chromium	17.3	11.0		15.8		15.7	30.0
Lead	51.2	211		86.7	0.115	149	400.0
Selenium	2.7	3.03		3.09	0.011	3.07	30.0
Mercury	-	-	-	-	-	-	0.18
Totals Chems	13	10	1	11	6	12	20
Metals	5	5	1	5	4	5	6

A. PROCEDURES and CERTIFICATIONS

1.0 Procedures For Phase 2 Sampling

1.1- Emanating from concerns by Mr. Raphael Elbaz, regarding possible sub-surface contamination from 45 years of on-site welding and repairs of cars, trucks & vans, storage in the rear (east) space. Mr. Raphael Elbaz authorized these Phase 2 procedures, at #75 Eckford St. in Greenpoint, Brooklyn 11222.

1.2- Sampling procedures follow protocols by U.S.-EPA and NYS-DEC, designed to explore and characterize sub-surface conditions in the 4 suspect areas of this parcel.

1.2.1- There are 2 methods of obtaining soil samples. The oldest machine is a drill, whose flukes convey soil up to the surface. Sampling can be obtained from soil off drill flukes, or a cylinder can be inserted into drill forward section and soil forced into this cylinder by centrifugal force.

1.2.2- The newer procedure is to utilize a GeoProbe "hydro-punch" that penetrates soil by means of vibratory-hydraulic force. A 60" sampling cylinder is positioned in the leading GeoProbe section of 5 feet, which is opened by a long screw key that unwinds a nozzle; at a depth selected by this Engineer -- 10 foot depth for #75 Eckford St. parcel.
Soil is then collected into that 5 ft, plastic tube, whose volume fills 2 x 8 oz. jars with screw-top, gasketed lid.

1.2.3- Soil immediately out of that GeoProbe plastic tube can be analyzed in 3 ways; for Total Petroleum Hydrocarbons (TPH) using a photo-emission detector (PED) meter; or, chemicals composition via a portable chromatograph, for "head space" gasses in the top of a collection jar; alternately, from a plastic bag of soil from that tube; or, by observation of soil color + "sniffing & tasting" test using the Engineer's 5 senses; or, all 3 methods, as possible.

1.3- The sets of 6 samples were obtained on July 25, 2013; from inside #75 premises; at 10 feet depth for soil samples and 11.5 feet depth for groundwater samples;
Please refer to the diagram that follows.

1.4 Drawing of 4 Soil + 2 Groundwater Sampling Locations

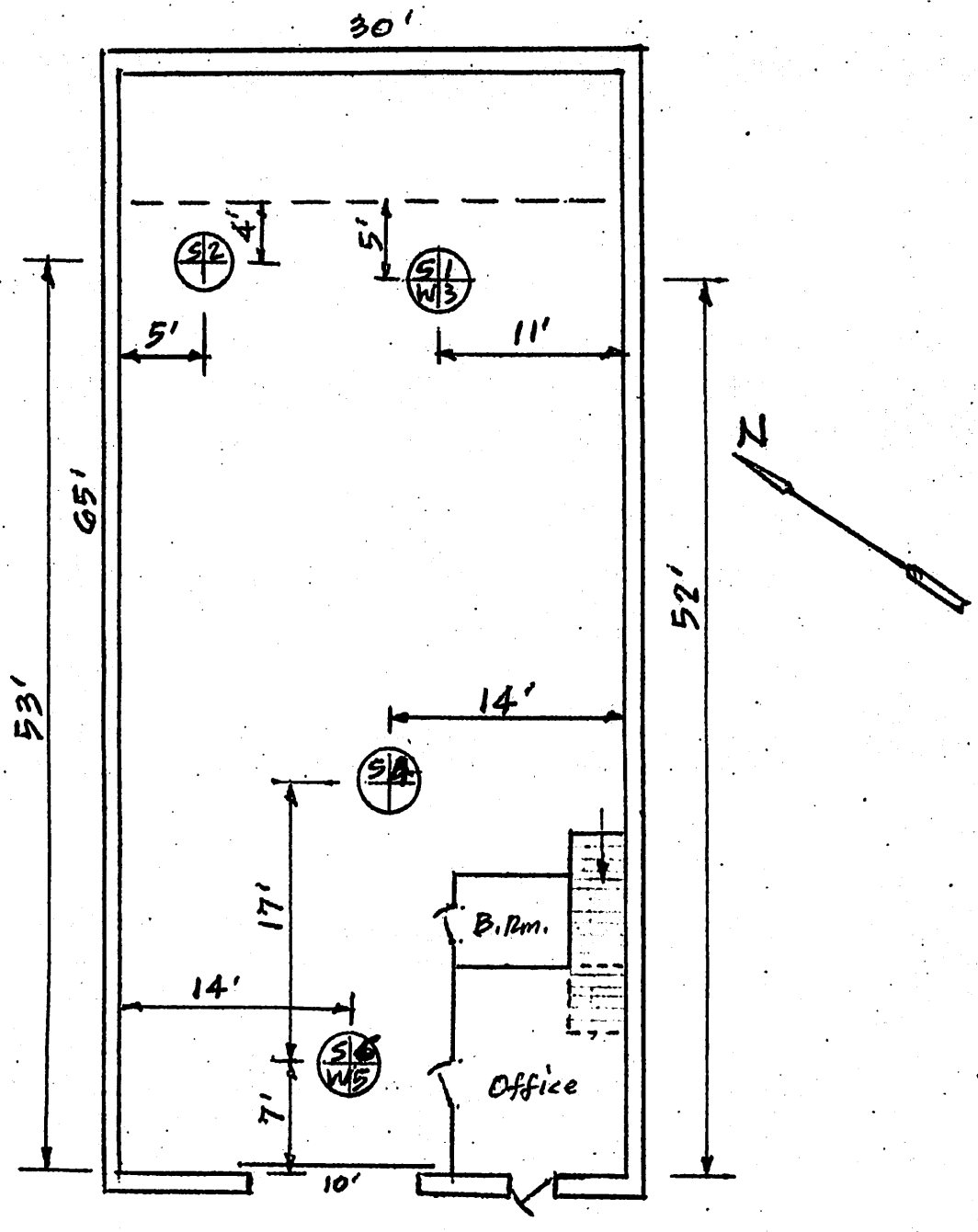
1.4.1- The following Page 5 contains a detailed drawing of #75 interior, with exact locations of each sampling site.

2.0 Samples To Lab by P.E., and test(s) Protocols Utilized

2.1- After PED readings, each soil sample was placed into 2 x 6oz. glass jars [to avoid any contamination to samples from a plastic jar] with screw-top lid. Groundwater samples -- which consumed about 20 minutes for flow thru a collection screen -- were placed into 600 ml brown glass jars (to preclude UV deterioration) with screw-top lid.
All samples were kept in a cooler with ice bags, to suppress escape of volatile organic compounds (VOCs).

2.2- Samples from July 25, 2013 procedures were packed-up for collection by a York Labs agent, then transported to their Certified Lab in Stratford Ct.
Sample jars were logged on a chain-of-custody form; reproduced in Section E.1., Part II.

2.3- Soil & groundwater test protocols are EPA-Certified, to evoke representative sub-surface characteristics, relevant to depths equivalent to a calculated 45 years of seepage by chemicals and hydrocarbons on-site.



ECKFORD STREET

2.3.1- Note: 1. Location of utilities within #75 shop building were identified by Mr. Roy Sibblies Owner of #75 Eckford St. parcel. All are in use, including 2 x 275 gallon waste oil tanks, which are located under the stairway adjacent east from #75 office.

2.3.1 Note 2. Depth-to-water was determined by Prof. Mal Barkan from Groundwater Contour Map, reproduced in Part II, Section D.

Note 3. Surface inspections in #75 shop revealed cracks in its concrete slab, plus porosity in several locations -- which allowed entry of hydrocarbons, over 15 years of Roy's operations here.

2.4 The Diagram of Sample Locations are in the Preceding Page 5.

+ **Sample #S-1** was obtained at 10 foot depth, at 52 feet east from #75 front wall and 11 ft. from Shop south wall.
+ **Sample #S-2** was obtained from 10 foot depth, at 53 feet from #75 west wall and 5 feet from Shop north wall.
+ **Groundwater Sample #W-3** was obtained from 11.5 - 12 feet depth, below #S-1 boring site.
+ **Sample #S-4** was obtained from 10 foot depth, at 24 feet from west (door) wall and 14 feet from the south wall.
+ **Groundwater Sample #W-5** was obtained at 11.5 - 12 feet depth, below #S-6 site.
+ **Sample #S-6** was obtained from 10 foot depth, at 7 feet from the west (door) wall and 14 feet from #75 north wall.

2.5 - Subsequent York Lab tests utilized 6 EPA Protocols for the 4 soil + 2 groundwater samples. Certified tests are :

2.5.1- EPA 8260C - Volatile Organic Compounds (VOCs) total of 65 possible chemicals, utilizing Atomic Spectroscopy, including groups in BTEX and MTBE.
2.5.2- EPA 8270C - Semi-Volatile Compounds (S-VOCs) total of 67 possible chemicals, via Atomic Spectroscopy.
2.5.3- EPA 7471A + 745.1, Rev. 3.0 - Called 8 RCRA Heavy Metals.
2.5.4- EPA 8081 & 8082 - for Pesticides & PCBs, a total of 28 possible chemicals.
2.5.5- EPA 7470 & 7471 - for Mercury, in soils and groundwater samples.
2.5.6- EPA 625 B/N - related to 8260 & 8270 for Groundwater, a total of 131 possible chemicals [VOCs & S-VOCs = 28 pesticides and PCBs.

3.0 Laboratory Certifications

3.1 - York Analytical Labs, Inc. is located in #120 Research Drive, Stratford, CT 06615. (203) 325-1371; Qualified as Certified in 4 States :

CT - #PH - 0723
N.J. - #CT-005
N.Y. - #10854
PA - #68-04440.

B. FINDINGS and CONCLUSIONS

4.0 York Labs - Summary of Results, for 4 Soil + 2 Groundwater Samples

4.1 - Summary Table 4.4, Test Results For 6 Samples

4.2 - For each of 4 soil + 2 groundwater samples, a combination of 132 chemicals and 7 RCRA "Heavy Metals" + Mercury, were Spectrographed for detectable chemicals & metals.

4.3 - Every one of these soil and groundwater samples and 3 pesticides, are **Below** NYS-DEC Policy CP-51 / Soil Cleanup Guidance [51 - S C G] plus Subpart 375-6 : Remedial Program Soil Cleanup Objectives [375 - RPSCO] Allowable Limits.

4.4 - Lead, at 0.115 to 149 parts per million (ppm) are 63% *below* Regulatory Limits of 400 ppm. Lead could have come from :

a) Leaking lead from the older lead-acid batteries; or

b) From lead in gasoline formulations, before it was outlawed; or

c) Probably as residual, "in situ" component of natural soil in this Greenpoint area of Brooklyn.

4.4.1- Chromium, at 11.0 to 17.3 ppm is 43% *below* its 16.0 ppm Allowable Limit; it was used as plating on vehicle parts from 1950's until mid-1980's, when auto mfrs switched to plastics for weight economy reductions. Chrome in #75 sub-strata was likely from vehicle parts stored here, or from chrome plating that "leached off" vehicle + van + truck parts.

4.4.2- Arsenic, at 2.57 to 4.2 ppm is 73% *below* its 16.0 ppm Allowable Limit; and **Barium,** at 0.119 to 95.3 is 73% *below* its 350 ppm Allowable Limit.

Note : These 2 metals are also indigenous to soils in this Greenpoint quadrant of Brooklyn.

4.4.2.1- However, Barium and Arsenic are ingredients of certain chemicals used for vehicle parts cleaning -- not for fluids in vehicle lube or braking systems.

4.4.3 - Selenium, at 0.011 to 3.07 ppm is at 89.8% *below* its 30 ppm Allowable Limit. Selenium is also part of vehicle plating & engine metals needing special lubrication qualities.

4.4.4 - DDT + DDE + DDD Pesticides -- outlawed 3 decades ago -- was detected in groundwater at 0.0043 to 0.0429 ppm, which are 99.7% *below* their 1.4 to 62 ppm Limits. That suggests use of these pesticides for weeds in the early 1980's.

4.4.5 - The other 11 chemicals detected -- as arrayed in Table 4.4 -- were determined at levels ranging from 0.76 to 99.4% *below* DEC Allowable Limits !

4.5 - Note that Chemicals listed in Table 4.4 are termed "derivatives or isotopes", from sub-surface chemical intermixing and atomic "compounding" due to heat & pressure below #75 slabs.

5.0 Conclusions From Lab Tests, on 4 Soil + 2 Groundwater Samples

5.1 - The Table 4.4 arrays 13 chemicals + 5 metals + 3 pesticides -- of which, **NONE** exceed Allowable Cleanup Limits -- detected are 18 from a total of 168 compounds, out of Atomic Spectroscopy tests.

5.2 - Under the 2011 Revised Allowable Limits, from DEC Policy CP-51 / Soil Cleanup Guidance, plus Subpart 375-6 : Remedial Program Soil Cleanup Objectives; each of these 5 metals & 13 chemicals & 3 pesticides, were detected from automotive and parts cleaning activities here, plus spraying for weeds some 45 years ago.

5.2.1 - Yet, **NONE** exceed these Revised Regulatory Limits.

5.2.2 - Note that of those 13 chemicals, only 3 are "man-made", the other 10 are "derivatives or isotopes", from hydrocarbons and chemicals released during leaks, spills, vehicle parts laying on #75 slab for a period of time, plus rust and "de-laminating" from chrome-plated parts, plus older battery leakages.

5.3 - It is NOT logical for groundwater contamination by 4 chemicals & 3 pesticides & 4 metals to have occurred recently. At a depth of 11.5 to 12 feet, this hazmat must have seeped thru concrete slabs into the ground during 4-5 decades !

5.3.1- Virtually none from adjacent north & south & east properties, whose groundwater flow tended north-northwest (N-N.W.). South are garages; north is a 2-story commercial facility for storage and distribution; east are multiple dwellings on Leonard St.

5.3.2- Yet, each of these 13 chemicals + 5 heavy metals + 3 pesticides, have detection amounts **BELOW** Regulatory Limits; which typically derive from pre-1980's vehicles & trucks, whose various chrome-plated parts were de-laminated, or were in contact with (relatively porous) concrete surfaces, for a significant period of time.

6.0 Further Action Recommendations

6.1 - Based upon the preceding Findings & Conclusions, for the planned new construction, excavations for footings must NOT exceed 4 feet depth; most importantly,

6.2- Excavated soil and concrete shall be transported to a Certified Landfill, which accepts partially contaminated soil, NOT to a standard landfill, which typically recycles soil as fill for residential and commercial projects.

6.2.1- Although 18 contaminants are *below* Regulatory Limits, this soil <u>shall not</u> be recycled as fill for unsuspecting users !

6.3 - Encapsulation of soil for near-future construction shall involve a (minimum) 11 mil (1/8") thick layer of high-density polyethylene (HDPE) then an 11 mil layer of GeoGrid material, preferably HDPE or polypropylene, entirely "encapsulating" #75 parcel !

6.3.1- Thus, #75 sub-surface distress -- although below Regulatory Limits -- is encapsulated permanently !

We trust this very extensive information, and its analysis, fulfills requirements for Mr. Raphael Elbaz and Partners; as well as for a selected financial institution.
It has been our pleasure to be of service.

Sincerely,

DOCUMENTATION

C. Environmental Map of Greenpoint, Brooklyn, Notated

The next sheet contains an Environmental Map for West-Central Brooklyn, with all the spill & tank leak data extracted from 198 pages of NYS-DEC printouts, and marked on this Map !

Spills are marked "X", volumes over one gallon are noted; and tank leaks are marked "T". Brownfield and Superfund Sites are marked "S".

D. Groundwater Contours Map

Second page following contains a reproduction of a Groundwater Contours Map, showing directions of groundwater flows.

E. 1. Chain-of-Custody Form

For 4 soil + 2 groundwater samples conveyed to York Labs.

E. 2. Lab Test Results From 6 Samples

Pages 4 thru 45 following contains the complete Lab test data, for the 5 EPA Protocols employed on 6 samples.

F. Representative Pages From DEC Policy Directive + Subpart 375-6

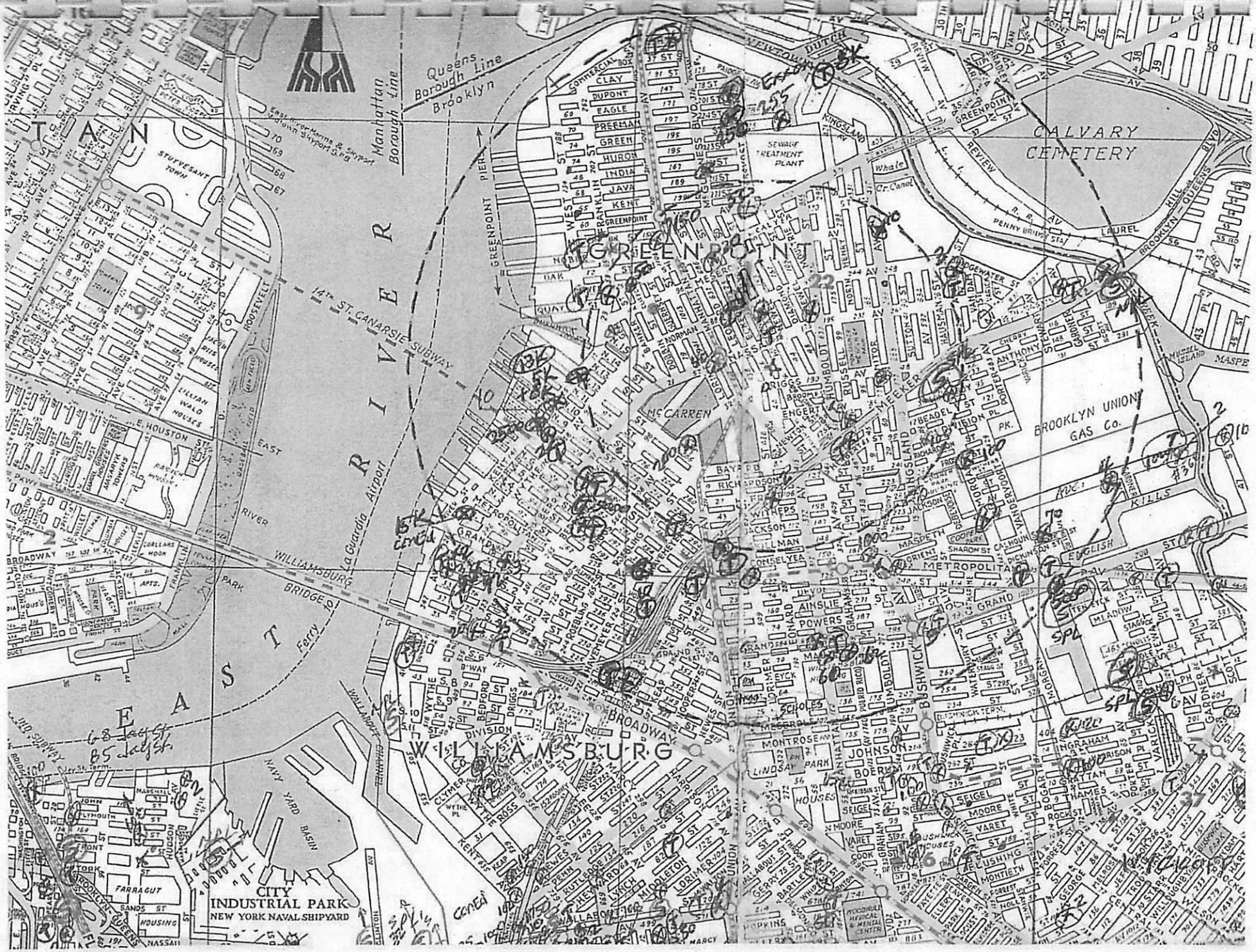
Pages 46 thru 48 contains excerpts from DEC Policy CP-51 / Soil Cleanup Guidance plus Subpart 375-6: Remedial Program Soil Cleanup Objectives, Revised Feb. 2011.

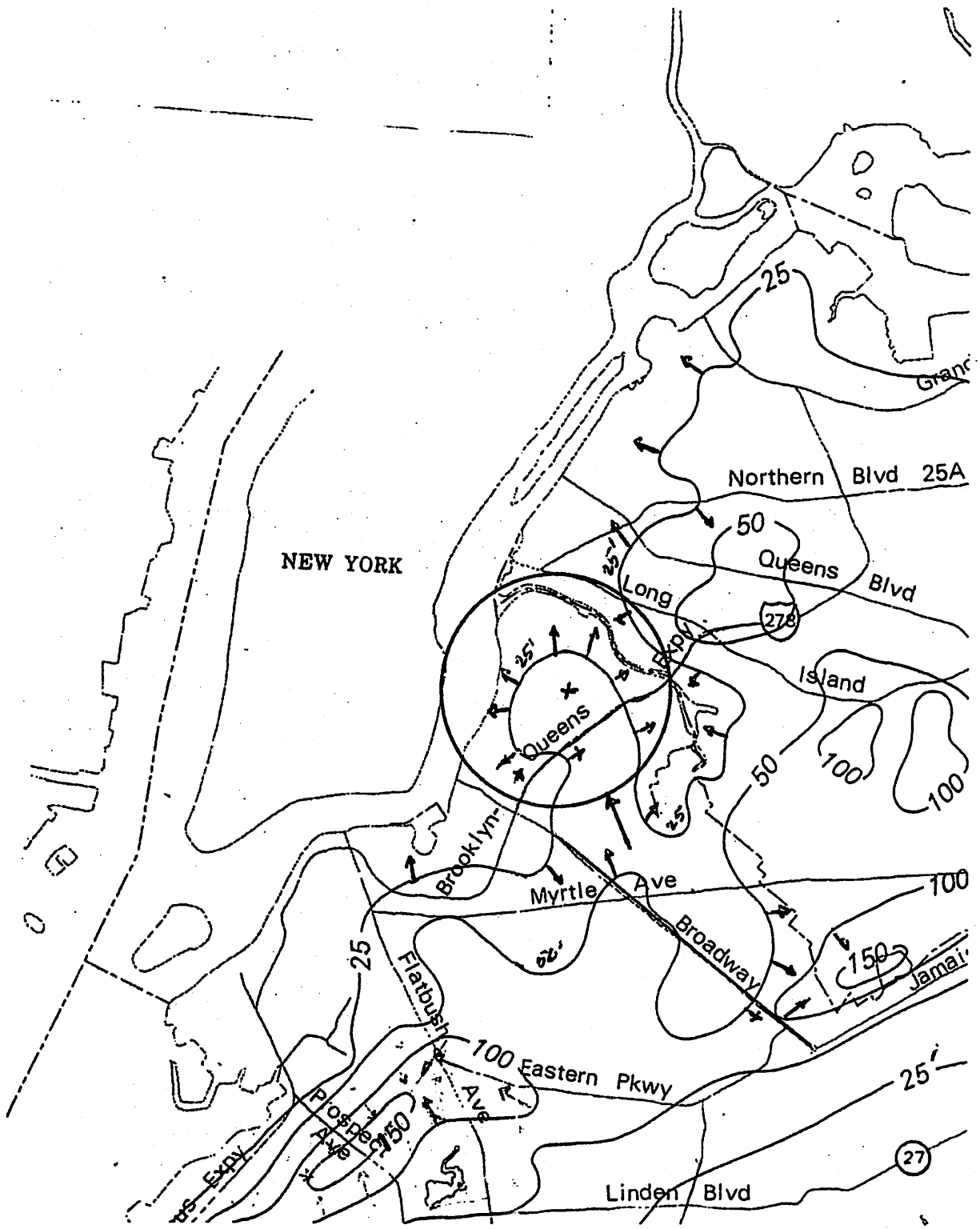
G. Photographs of GeoProbe Procedures

Pages 49 thru 53 contains 13 color photos of GeoProbe drilling operations and groundwater sampling, in #75 Eckford Street parcel.

H. Insurance Forms & Resume` of Prof. Malcolm Barkan, P.E.

Pages 54 to 64 contains Insurance Forms and a relatively complete Resume` for Prof. Malcolm I. Barkan, P.E. from 1954 to date.


Queens Borough Line
Brooklyn
Manhattan Borough Line
East River Marine & Shipport Joint Shipport S.R.B.
STUYVESANT TOWN
ROOSEVELT
LILLIAN WALD HOUSES
E. HOUSTON ST
EAST RIVER
14th ST. CANARSIE SUBWAY
La Guardia Airport
WILLIAMSBURG BRIDGE
Ferry
PARK
BROADWAY
FRANKLIN
JACKSON
WALLABOUT CANAL
NAVY YARD BASIN
CITY INDUSTRIAL PARK
NEW YORK NAVAL SHIPYARD
FARRAGUT
HOUSING
NASSAU
GREENPOINT
GREENPOINT PIER
SEWAGE TREATMENT PLANT
NEWTOWN
DUTCH
KINGSLAND
CALVARY CEMETERY
PENNY BRIDGE
LAUREL HILL BLVD
BROOKLYN UNION GAS Co.
KILLS
MCCARREN
WILLIAMSBURG
BROADWAY
DIVISION
BEDFORD
DRIGGS
METROPOLITAN
GRAND
MONTROSE
JOHNSON
BUSHWICK
INGRAHAM
MOORE
VARET
FLUSHING
MONTIETH
THAMES
GRATTAN
SEIGEL
MARCY

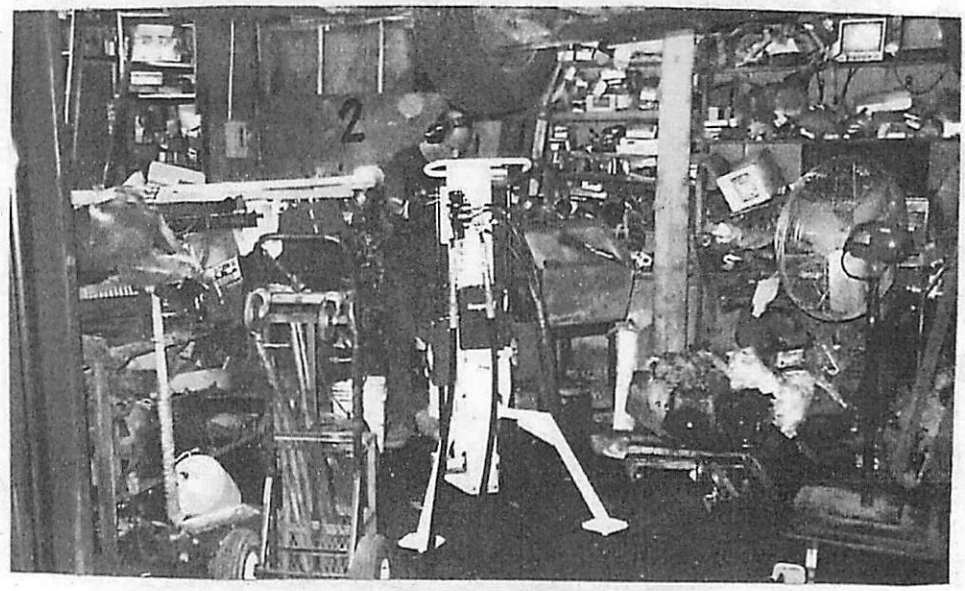

NEW YORK
Northern Blvd 25A
Queens Blvd
Long Island Exp
278
Queens
Brooklyn-Queens Expy
Myrtle Ave
Broadway
Flatbush Ave
Eastern Pkwy
Linden Blvd
Pitkin Ave
Jamai
27
25
50
100
150

1.

Front (West) Face of #75 Eckford St., Roy's Auto Repair

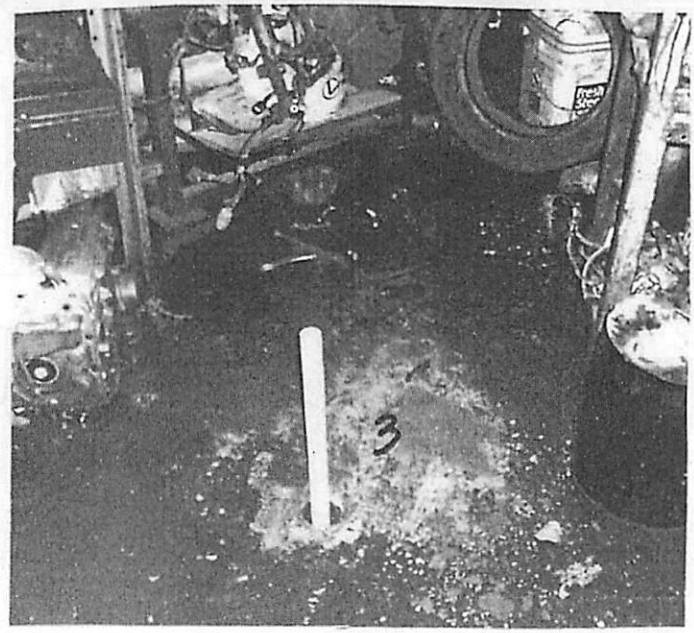
2.

Location of S-1, in S.E. Corner of Shop; Technician with GeoProbe Machine. Soil Sampling at 10 ft. Depth.



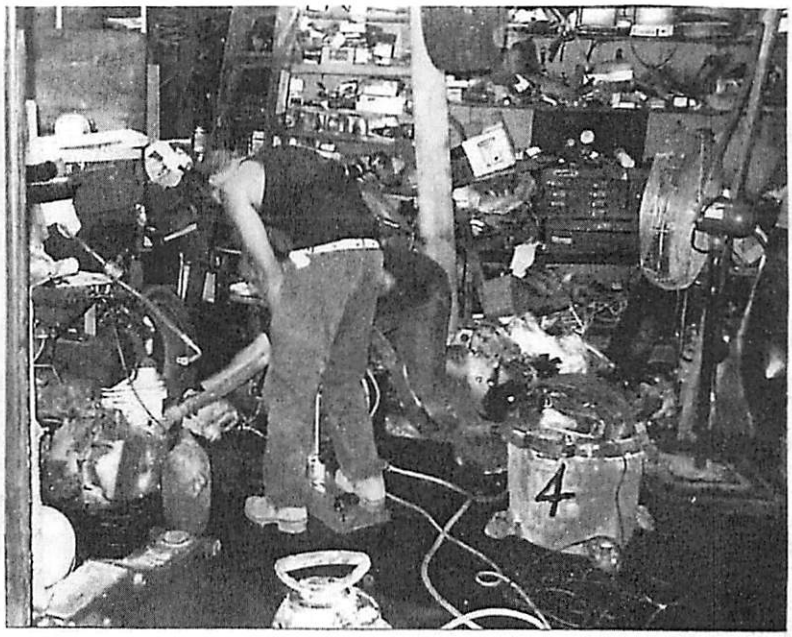
3.

In S-1, After Soil Sampling, Groundwater Samples at 11.5 ft. Depth, W-3.



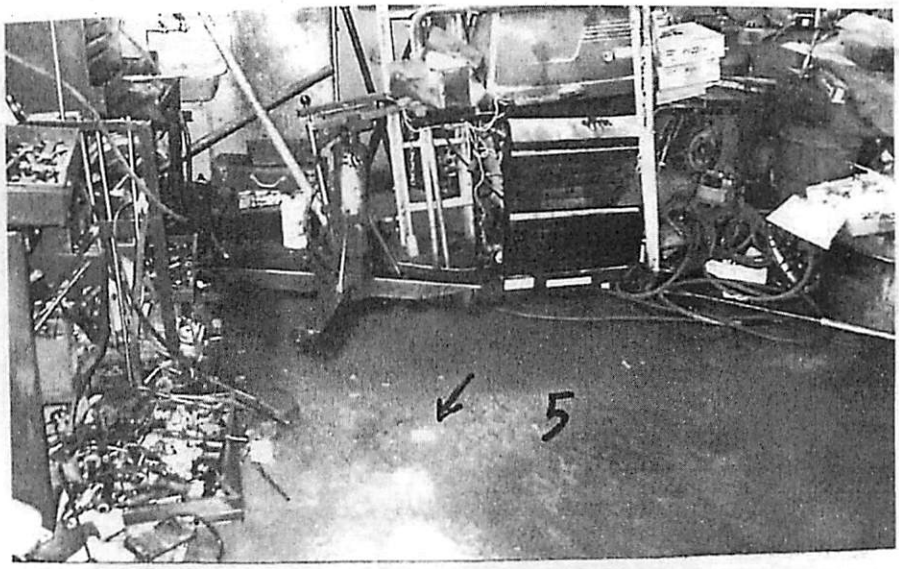
4.

GeoProbe Technicians at S-1 Location, Now is W-3 Pumping Setup for Groundwater.



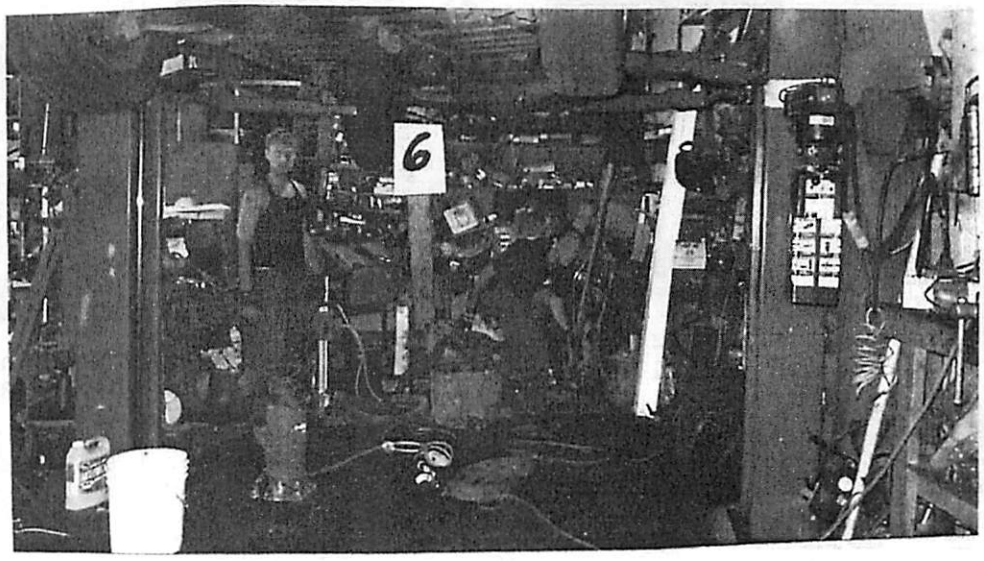
5.

Location of S-2, in N.E. Corner of Shop (Arrow).



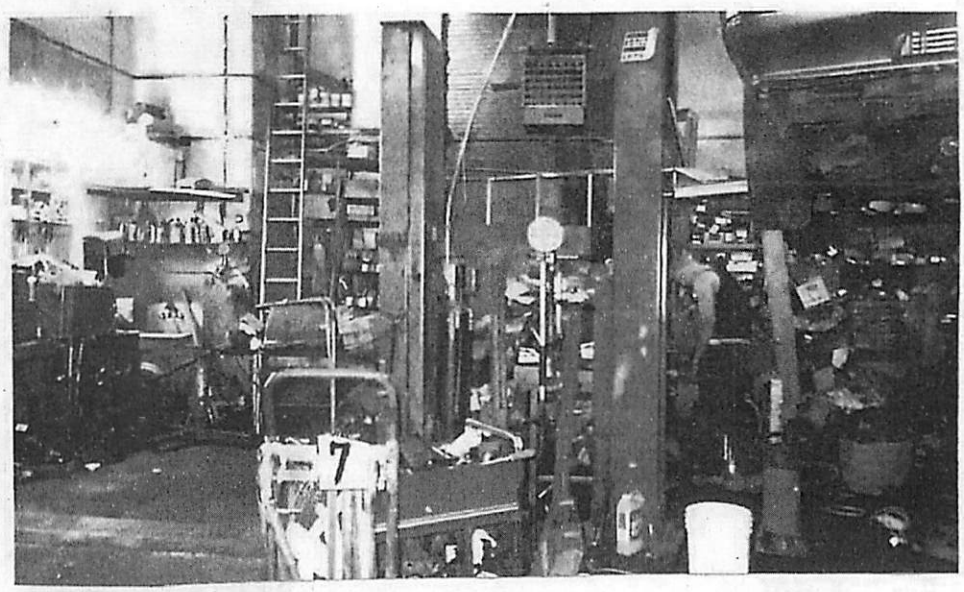
6.

In S.E. Corner of Shop, Location For S-1; Being Prepared for W-3 Groundwater Sampling.

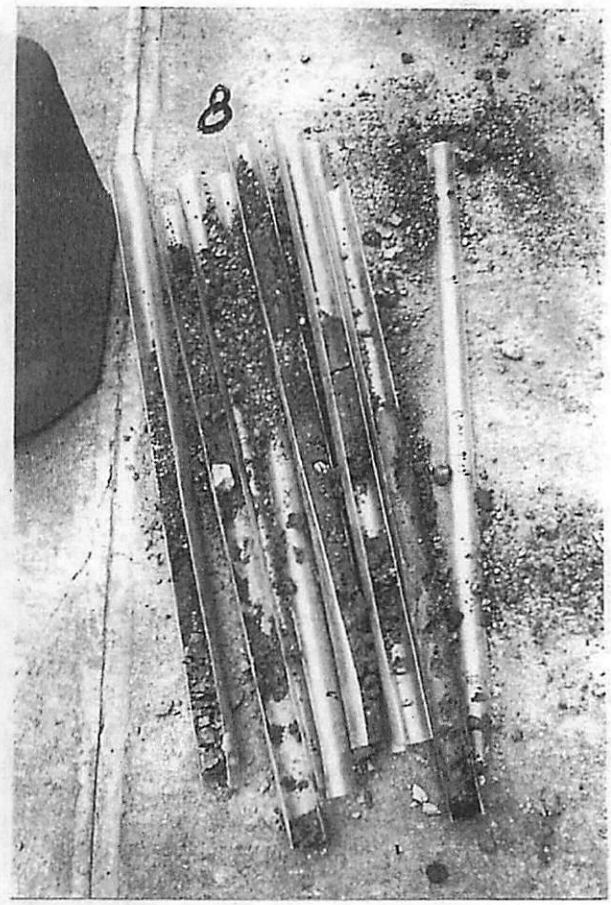


7.

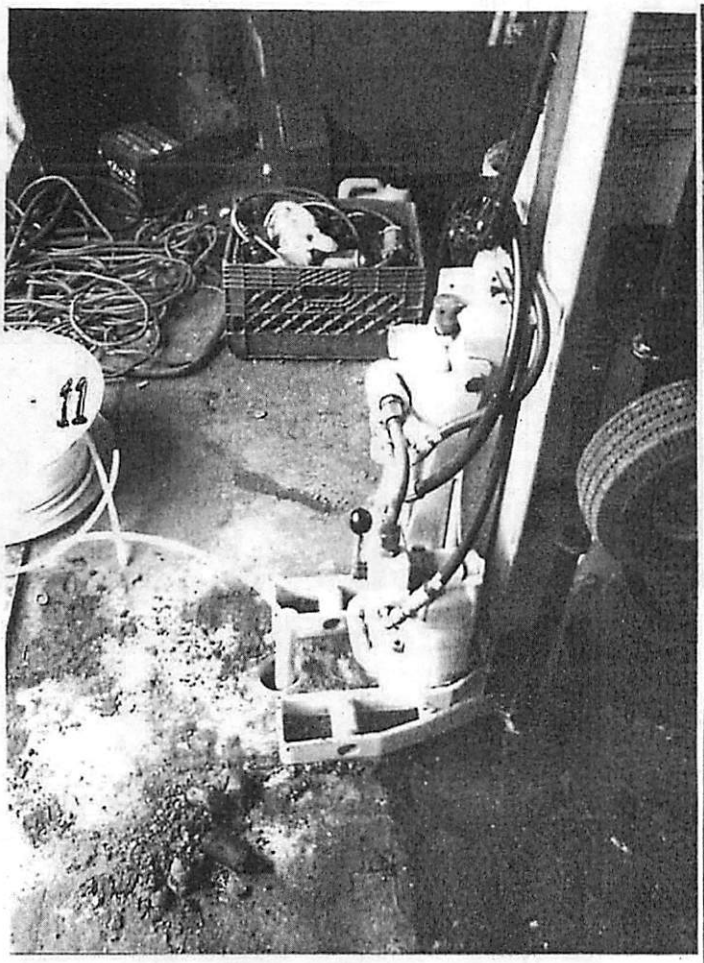
East End of Shop,
Location of S-1 & W-3
at Right plus
Location of S-2
at Left.



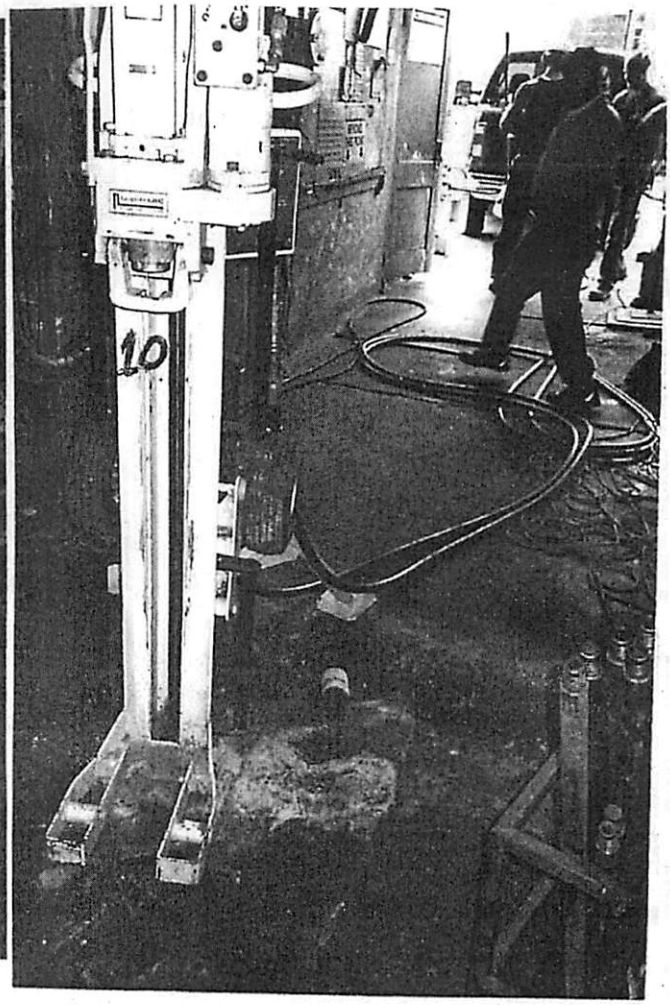
9. GeoProbe at Location S-2,
Drilling for Soil Samples.



8. See Samples from S-1 Borings,
0-3 + 3-6 + 6-9 + 9-12 ft.



11. Plastic Access Tube in S-5 Location for W-6 Groundwater Sampling



10. Location of S-4, in Middle of Shop Width, and 24 ft. From Door in West Wall.

12.

Looking West from Inside #75 Shop; the Locations for S-4, S-5 and W-6 are in Floor Slab (Arrows).

13.

North-South Bump in Shop Slab is Water Pipe, from Supply (Arrow) to Bathroom.

NEW YORK STATE
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

Subpart 375-6: Remedial Program Soil Cleanup Objectives

(Environmental Conservation Law (ECL) article 1, section 0101; ECL article 27, titles 13 and 14; ECL article 52, title 3; ECL article 56, title 5; ECL article 71, title 36; ECL article 3, section 0301; chapter 1, laws of 2003; chapter 577, laws of 2004 and State Finance Law article 6, section 97-b)

[Effective December 14, 2006]

[page 1 of 1]

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375-6.1 Purpose; applicability.
375-6.2 Definitions.
375-6.3 Unrestricted use soil cleanup objectives.
375-6.4 Restricted use soil cleanup objectives for the protection of public health.
375-6.5 Soil cleanup objectives for the protection of groundwater.
375-6.6 Soil cleanup objectives for the protection of ecological resources.
375-6.7 Other considerations and media.
375-6.8 Soil cleanup objective tables.
375-6.9 Development or modification of soil cleanup objectives.

§375-6.1 Purpose; applicability.

(a) This subpart applies to the development and implementation of the remedial programs for soil and other media set forth in subparts 375-2 through 375-4.

(b) This subpart includes the soil cleanup objective tables developed pursuant to ECL 27-1415 (6).

§375-6.2 Definitions.

(a) "Contract required quantitation limit" or "CRQL" means the minimum level of quantitation acceptable for Department analytical services contracts. The value represents minimum quantitation limits, not absolute detection limits. The minimum quantitation limit is the lowest level at which the analytical instrument can determine the concentration of a chemical that xists in the sample. The detection limit is the minimum level at which the analytical instrument confirm the presence of the chemical in the sample. At the detection limit, the analytical

All soil cleanup objectives (SCOs) are in parts per million (ppm).

Footnotes

[a] The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See Technical Support Document (TSD), section 9.3.

[b] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[c] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[d] SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

[e] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[f] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

(b) Restricted use soil cleanup objectives.

ppm Yes

Table 375-6.8(b): Restricted Use Soil Cleanup Objectives

Contaminant	CAS Number	Protection of Public Health				Protection of Ecological Resources
		Residential	Restricted-Residential	Commercial	Industrial	
Metals						
Arsenic	7440-38-2	16[f]	16[f]	16[f]	16[f]	13[f]
Barium	7440-39-3	350[f]	400	400	10,000 [d]	433
Beryllium	7440-41-7	14	72	590	2,700	10
Cadmium	7440-43-9	2.5[f]	4.3	9.3	60	4
Chromium, hexavalent [h]	18540-29-9	22	110	400	800	1[e]

			Residential	Comm	Ind	(ppm)
Chromium, trivalent[h]	16065-83-1	36	180	1,500	6,800	41
Copper	7440-50-8	270	270	270	10,000 [d]	50
Total Cyanide [h]		27	27	27	10,000 [d]	NS
Lead	7439-92-1	400	400	1,000	3,900	63[f]
Manganese	7439-96-5	2,000[f]	2,000[f]	10,000 [d]	10,000 [d]	1600[f]
Total Mercury		0.81[j]	0.81[j]	2.8[j]	5.7[j]	0.18[f]
Nickel	7440-02-0	140	310	310	10,000 [d]	30
Selenium	7782-49-2	36	180	1,500	6,800	3.9[f]
Silver	7440-22-4	36	180	1,500	6,800	2
Zinc	7440-66-6	2200	10,000 [d]	10,000 [d]	10,000 [d]	109[f]
PCBs/Pesticides						
2,4,5-TP Acid (Silvex)	93-72-1	58	100[a]	500[b]	1,000[c]	NS
4,4'-DDE	72-55-9	1.8	8.9	62	120	0.0033 [e]
4,4'-DDT	50-29-3	1.7	7.9	47	94	0.0033 [e]
4,4'-DDD	72-54-8	2.6	13	92	180	0.0033 [e]
Aldrin	309-00-2	0.019	0.097	0.68	1.4	0.14
alpha-BHC	319-84-6	0.097	0.48	3.4	6.8	0.04[g]
beta-BHC	319-85-7	0.072	0.36	3	14	0.6
Chlordane (alpha)	5103-71-9	0.91	4.2	24	47	1.3
delta-BHC	319-86-8	100[a]	100[a]	500[b]	1,000[c]	0.04[g]
Dibenzofuran	132-64-9	14	59	350	1,000[c]	NS
Dieldrin	60-57-1	0.039	0.2	1.4	2.8	0.006
Endosulfan I	959-98-8	4.8[i]	24[i]	200[i]	920[i]	NS

Endosulfan II	33213-65-9	4.8[i]	24[i]	200[i]	920[i]	NS
Endosulfan sulfate	1031-07-8	4.8[i]	24[i]	200[i]	920[i]	NS
Endrin	72-20-8	2.2	11	89	410	0.014
Heptachlor	76-44-8	0.42	2.1	15	29	0.14
Lindane	58-89-9	0.28	1.3	9.2	23	6
Polychlorinated biphenyls	1336-36-3	1	1	1	25	1
Semivolatiles						
Acenaphthene	83-32-9	100[a]	100[a]	500[b]	1,000[c]	20
Acenapthylene	208-96-8	100[a]	100[a]	500[b]	1,000[c]	NS
Anthracene	120-12-7	100[a]	100[a]	500[b]	1,000[c]	NS
Benz(a)anthracene	56-55-3	1[f]	1[f]	5.6	11	NS
Benzo(a)pyrene	50-32-8	1[f]	1[f]	1[f]	1.1	2.6
Benzo(b) fluoranthene	205-99-2	1[f]	1[f]	5.6	11	NS
Benzo(g,h,i) perylene	191-24-2	100[a]	100[a]	500[b]	1,000[c]	NS
Benzo(k) fluoranthene	207-08-9	1	3.9	56	110	NS
Chrysene	218-01-9	1[f]	3.9	56	110	NS
Dibenz(a,h) anthracene	53-70-3	0.33[e]	0.33[e]	0.56	1.1	NS
Fluoranthene	206-44-0	100[a]	100[a]	500[b]	1,000[c]	NS
Fluorene	86-73-7	100[a]	100[a]	500[b]	1,000[c]	30
Indeno(1,2,3-cd) pyrene	193-39-5	0.5[f]	0.5[f]	5.6	11	NS
m-Cresol	108-39-4	100[a]	100[a]	500[b]	1,000[c]	NS
Naphthalene	91-20-3	100[a]	100[a]	500[b]	1,000[c]	NS
o-Cresol	95-48-7	100[a]	100[a]	500[b]	1,000[c]	NS
p-Cresol	106-44-5	34	100[a]	500[b]	1,000[c]	NS

YORK
ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page ___ of ___

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13G1011

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: MIB Consulting	Company: MIB Consulting	Company: J C Broderick	2020 - 2020	RUSH - Same Day ☐	Summary Report ___
Address: 32 Empress Pines Dr. Nesconset, N.Y. 11767	Address: 32 Empress Pines Dr. Nesconset, N.Y. 11767	Address: 1775 N. Service Rd. Hauppauge	Purchase Order No.	RUSH - Next Day ☐	Summary w/ QA Summary ✓
Phone No: (631) 981-2122	Phone No: (631) 981-2122	Phone No: (631) 584-5492		RUSH - Two Day ☐	CT RCP Package ___
Contact Person: Malcolm Barkan	Attention: Malcolm Barkan	Attention: Steve Muller		RUSH - Three Day ☒	NY ASP A Package ___
E-Mail Address: mibconsulting@optonline.net	E-Mail Address:	E-Mail Address:	Samples from: CT ___ NY ✓ NJ ___	RUSH - Four Day ☐	NY ASP B Package ___
				Standard (5-7 Days) ☐	Electronic Deliverables: EDD (Specify Type) ___ Excel ___

Matrix Codes: S - soil; Other - specify (oil, etc.); WW - wastewater; GW - groundwater; DW - drinking water; Air-A - ambient air; Air-SV - soil vapor

Volatiles		Semi-Vols	Part/Contact	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters		
8260 full	TICs	8270 or 625	8082 PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity	Nitrate	Color
524	Site Spec.	STARS list	608 Pest	PPI3 list	TPH DRO	TCL Organics	Reactivity	Nitrite	Phenols
STARS list	Nassau Co.	BN Only	8151 Herb	TAL	CT ETPH	TAL MetCN	Ignitability	TKN	Cyanide-T
BTEX	Suffolk Co.	Acids Only	CT RCP	CT13 list	NY 310-13	Full TCLP	Flash Point	Tot. Nitrogen	Cyanide-A
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.	Ammonia-N	BOD5
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Rodfree	Heterotrophs	Chloride	CBOD5
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Rodfree	TOX	Phosphate	BOD28
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360	BTU/Btu	Tot. Phos.	COD
Aromatics only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360	Aquatic Tox	O&G/Grease	TSS
Halog. only	NJDEP list	App. IX	Chlordane	Leach Metals	Air TICs	NYCDEP Sewer	TOC	E.O.G.	Total Solids
App. IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos	pH	TDS
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica	MBAS	TPH-1664

Special Instructions: Field Filtered ☐ Lab to Filter ☐

Malcolm I. Barkan
Samples Collected/Authorized By (Signature)

MALCOLM I. BARKAN
Name (printed)

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
S-1-10', S.E. Corner	7/25/13	S	8260 + 8270 + RCRA 8 + PCB + Pesticides	3 Glass Jars.
S-2-10', N.E. Corner		S	-DO-	-"-
W-3-11', S.E. Corner		GW	-DO-	Amber Jar + 40ml Glass vial
S-4-10', Middle of Bldg.		S	-DO-	3 Glass Jars.
W-5-11, "		GW	-DO-	Amber Jars + V.
S-6-10, Front of West Door		S	-DO-	3 Glass Jars

Comments: Client requests 2-day Rush instead - as per Malcolm Barkan 7/30/13

Preservation (Check those Applicable): 4°C ___ Frozen ___ HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other Iced.

Samples Relinquished By	Date/Time	Samples Received By	Date/Time	Temperature on Receipt
MIB	7/25/13 2000	K Binder / J. Gale	7/29/13 1320 pm / 7/29/13 - 1700	4.3°C

Appendix C

HASP

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1.0 INTRODUCTION

This health and safety plan (HASP) describes the health and safety (HAS) guidelines developed for this site to protect on-site personnel, visitors, and the public from physical harm and exposure to hazardous materials or wastes. In accordance with the Occupational Safety and Health Administration (OSHA) at 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final Rule, this HASP addresses the potential and actual safety and health hazards relating to of each phase of site operations.

This site-specific HASP is based on the best available information to date. The HASP may be revised when new information on site conditions is received or identified.

ESPL and contractor employees may be exposed to risks from hazardous conditions related to activities at this site. ESPL's policy is to minimize the possibility of work-related injury through aware and qualified supervision, health and safety training, medical monitoring, and the use of appropriate personal protective equipment.

This site-specific Health and Safety Plan (HASP) applies to ESPL and contractor personnel where operations involve actual or potential exposure to safety or health hazards. This HASP describes emergency response procedures for actual and potential physical and chemical hazards that have been identified by ESPL. This HASP is also intended to inform and guide all personnel entering an exclusion zone. ESPL's sub-contractors are retained as independent contractors and, are responsible for ensuring the health and safety of their own employees.

ESPL may require that its personnel take certain precautions in accordance with this HASP, and ESPL requests that others protect their personnel in a manner that they deem necessary or sufficient.

1.1 Brief Description of Project

Remedial action at the site is proposed to consist of advancement of five (5) boreholes, converting two into monitoring wells and installation of five soil vapor probes as identified in the Phase II Work Plan dated February 2014.

1.2 Site History

The subject area is situated in a Manufacturing Zoning District area of Manhattan (M1-2/R6B/MX-8). (See Appendix A, Fig. 1). The subject site is situated on the west side of the intersection of Eckford Street and Driggs Avenue. According to the New York City Department of Finance, Office of the City Register Information System (ACRIS), the assessor's parcel number of the property is Block 2698, Lots 25, in the Borough of Brooklyn,

New York.

The subject site consists of a one story building, approximately 30 by 65 feet that was used for the welding, repair and maintenance of automobiles. The lot is rectangular shaped with a frontage of approximately 30 feet on Eckford Street, approximately 65 feet deep.

ESPL Environmental Consultants Corp. (ESPL) reviewed the Phase I Environmental Site Assessment (ESA) prepared by MIB Environmental Consulting for the subject site.

A review of the Sanborn Maps, dated 2007 to 1965, indicated that the subject site was used for welding and auto repair. The 1951 and 1942 Sanborn Map indicated that the site was used as a poultry market.

1.3 Synopsis of Remedial Actions

A contractor shall be retained to perform advancement of five (5) boreholes to obtaining soil and groundwater samples by this technique and five (5) soil vapor probes.

1.4 Site Operations to be performed

Geoprobe boring installation for soil and groundwater sampling ans soil vapor collection.

2.0 ORGANIZATIONAL STRUCTURE

Principal in Charge: Ray Kahn (917-939-7366)

Project Supervisor / Overall Project Manager: Margaret Tavares (646-772-8820)

Site Safety and Health Officer: Margaret Tavares , (646-772-8820)

Additional Site Personnel: Mir Fazlul Karim

Title	Name
Project Manager	Ray Kahn, P. E.
Field Supervisor	Margaret Tavares
Health and Safety Officer	Margaret Tavares, Mir Fazlul Karim
Administration / Clerical	Grace Cuevas
Chemical Analysis	By a New York State Department of Health Environmental Laboratory Approval Program (NYSDOH ELAP) certified laboratory

2.1 Roles and Responsibilities

The ESPL Project Supervisor is responsible for overall project administration and for supervising implementation of the HASP by ESPL personnel on site. All applicable OSHA health and safety (HAS) standards shall be applied. Each subcontractor (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute with regard to HAS or project activities, on-site personnel shall attempt to resolve the issue. If the issue cannot be resolved, in the work zone, then the project superintendent shall be consulted.

The ESPL Site Safety Officer is also responsible for coordinating HAS standards on-site. The Site Safety Officer will have met the emergency response and hazardous materials handling training requirements of OSHA 29 CFR Part 1910.120, completed supervisors training, and have appropriate experience pertinent to the on-site work. The Site Safety Officer is authorized to suspend site work based on safety concerns, and is responsible for:

1. Indoctrinating personnel with regard to all of the information in this HASP and any other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and medical situations;

2. Coordinating site safety decisions with the Project Supervisor and the Principal in Charge;

3. Maintaining the designation of exclusion, decontamination, and support zones on a daily basis;

4. Monitoring the condition and status of known on-site hazards, and maintenance and implementation of the air quality-monitoring program specified in this HASP;

5. Maintaining the Site Personnel log;

6. Maintaining records of safety problems encountered, corrective actions taken, and documentation of any chemical exposures or physical injuries. The Site Safety Officer will document these conditions in a bound notebook and maintain a copy of this log on-site; and

7. Periodic inspections of the site to determine the effectiveness of the HASP.

Any person who observes safety concerns or potential hazards that have not

been addressed in the daily safety meetings should immediately report observations/concerns to the ESPL Site Safety Officer or other appropriate key personnel.

3.0 HAZARD ASSESSMENT

This section identifies the activity-specific hazards associated with site operations and standard operating procedures (SOPs) that should be implemented to reduce the hazards; identifies general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against by using engineering controls and/or personal protective equipment.

3.1 Activity-Specific Hazards and Standard Operating Procedures

In-situ Remediation:
Geoprobe borings.

Identification of the Hazards associated with each task:

Geoprobe Borings
Drilling operations may expose workers to rotating equipment, heavy moving objects and overhead hazards. Booms and derricks shall not be raised unless the area is clear of overhead hazards such a tree limbs and electrical power lines. Underground utilities may pose a hazard if encountered during drilling.

Mechanical System Construction:
Mechanical system construction will include piping and electrical construction that involves the use of standard tools and electrical equipment such as hammers, saws, power cutting tools, drills and other equipment. These types of tools shall be used in accordance with manufactures recommendations for specific hazards posed by each.

System Operation:
The operation of a system in a petroleum-contaminated site may require field visits and well monitoring operations such as depth to water measurements, depth to product measurements, air, soil and groundwater sample collection. The hazard associated with this task is the possible worker exposure to gasoline in liquid and vapor forms.

Required Hazard Controls or SOP:

1. Use tools in accordance with manufactures specifications.
2. Use ground fault circuit interrupters for all electrical work.
3. Avoid wearing loose clothing around rotating machinery associated with well drilling equipment.

4. Use OSHA compliant personal protective equipment.
5. Hand digging and site mark outs shall be performed prior to commencement of drilling operations to avoid underground utilities. Overhead inspections shall be performed prior to raising drill rig derricks and booms.

3.2 General Site Hazards

Applicable OSHA 29 CFR 1910.120(m) standards for illumination shall apply. Generally, all work at this site will be conducted during daylight hours.
All electrical power must be connected to a ground fault circuit interrupter. All equipment that will enter excavations must be suitable and approved (i.e. intrinsically safe) for use in potentially explosive environments. Applicable OSHA 29 CFR 1926 Subpart K standards for use of electricity shall apply.

Work in which a worker could fall will be performed using appropriate ladders and/or protection (e.g. body harness and lifeline). All work at this site is expected to be conducted at the ground surface.

When the temperature is above 70°F and personnel are wearing protective clothing, a heat stress-monitoring program shall be implemented. Employees shall be allowed break periods and beverages as necessary. All personnel routinely working on site (including the support zone) shall be familiar with the symptoms, signs, and emergency care associated with heat stress, heat exhaustion, and heat stroke as discussed in Section 6 of this HASP.

Cold stress is a result of cold, wetness, and wind. A worker's susceptibility to cold stress can vary according to his/her physical fitness, degree of acclimatization to cold weather, age, and diet. A cold stress-monitoring program shall be implemented as appropriate. Employees shall have access to break periods, shelter, and beverages as necessary. All personnel routinely working on-site (including the support zone) shall be familiar with the symptoms, signs, and emergency care associated with cold stress, hypothermia, and frostbite as discussed in Section 6 of this HASP.

In accordance with 29 CFR 1910.151(c), all site related operations involving possible eye injury, (chemical splash, etc.), must have approved eye wash units readily available (in the Site Safety Officer's vehicle and in the job trailer). Protective eyewear shall be donned in Level D, when directed by the site safety officer. (The full-face APR required by Level C and the pressure demand self-contained breathing apparatus mask required by Level B serve as eye protection.)

Operations creating the potential for fire hazards shall be conducted in a manner that minimizes risk. Non-sparking tools and fire extinguishers shall be used or available as directed by the site safety officer when potentially

explosive atmospheres may be encountered. Ignition sources shall be removed from work areas. When necessary, explosion-proof instruments and/or bonding and grounding will be used to prevent fire or explosion.

Overhead and underground utilities shall be identified and/or inspected and appropriate safety precautions taken before conducting operations involving potential contact or interference.

3.3 Biological Hazards

Biological hazards can cause infection or disease in people, plants, animals, or microorganisms. These hazards are divided in to five categories: viral, rickettsial/chlamydia, bacterial, fungal, and parasitic.

Biological agents may be dispersed by wind or water. Many biological agents require a carrier (e.g. bees, ticks, snakes) to infect a host; therefore, controlling the agent may require controlling or avoiding the carrier. Contact with some biological agents may be avoided by using personal protective equipment similar to that used for chemical hazards.

4.0 TRAINING REQUIREMENTS

All personnel entering an exclusion zone or decontamination zone must have met training requirements for hazardous waste site operations and emergency response operations in accordance with OSHA 29 CFR 1910.120(e).

Documentation of personnel training is maintained on file, and each employee will have copies of his/her applicable 40-Hour OSHA Training, 8-Hour Refresher Training, and Supervisor Training certificates on-site (located in job trailer files). A summary of personnel training status and HAS training records is shown in Table 1-1. Each subcontractor working on the job must provide the site safety officer with training documentation for its personnel.

TABLE 1-1
HEALTH AND SAFETY TRAINING RECORDS

Personnel	Date of 40 Hours	Last 8-Hour Refresher	Supervising Training	Last Physical	Fit Testing Last

Notes:

(1) Physicals will be completed before site work begins.

(2) An 8-hour refresher course including respirator fit testing will be conducted before site work begins.

(3) Union employees working in the exclusion zone will have 40-hours training. Additional workers, who meet all requirements specified in this plan, will be supplied

by the local unions as needed.

5.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program and hazard assessment, OSHA 29 CFR 1910.120(.c) and (g), and 1910.132. Protective equipment shall be NIOSH-approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136.

The level of personnel protection for site activities described in the hazard assessment is as follows:

Location	Job Function	Level of Protection			
Exclusion Zone	D	A	B	C	D
		A	B	C	D
		A	B	C	D
		A	B	C	D
Decontamination Zone	D	A	B	C	D
		A	B	C	D
		A	B	C	D
		A	B	C	D

Specific protective equipment for each level of protection is as follows:

Level A _____

Level B _____

Level C _____

Level D Hardhat and safety boots

List type of air-purifying canister to be used if required. _____

Other PPE not listed above:

_____

_____

_____

_____

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE SITE SAFETY OFFICER.

A description of typical PPE for each protection level is as follows:

5.1 Level A Protection

1. PPE:

Supplied-air respirator approved by the Mine Safety and health Administration (MSHA) and NIOSH. Respirators may be:

- Positive-pressure SCBA; or
- Positive-pressure airline respirator (with escape bottle for immediately Dangerous to Life and Health (IDLH) or potential for IDLH atmosphere).

b. Fully encapsulating chemical-resistant suit.

c. Coveralls.

d. Cotton long underwear*.

e. Gloves (inner), chemical-resistant.

f. Boots, chemical-resistant, steel toe and shank. (Depending on suit construction, worn over or under suit boot.

g. Hard hat (under suit)*.

h. Disposable gloves and boot covers (worn over fully encapsulating suit).

i. Cooling unit *.

j. Two-way radio communications (inherently safe)*.

*Optional

2. Criteria for Selection:

Meeting any of these criteria warrants use of Level A protection:

a. The chemical substance has been identified and requires the highest level of protection for skin, eyes, and the respiratory system based on:
   - Measures (or potential for) high concentration or atmospheric vapors, gases, or particulate, or
   - Site operations and work functions involve high potential for splash, immersion, or exposure to unexpected vapors, gases, or particles of materials highly toxic to the skin.

b. Substances with a high degree of hazard to the skin are known or suspected to be present, and skin contact is possible.

c. Operations must be conducted in confined, poorly ventilated areas until the absences of substances requiring Level A protection is determined.

d. Direct readings on field Flame Ionization Detectors (FID) or phototoionization Detectors (PID) and similar instruments indicate high levels of unidentified vapors and gases in the air.

3. Guidance on Selection

a. Fully encapsulating suits are primarily designed to provide gas or vapor-tight barrier between the wearer and atmospheric conditions.

Therefore Level A is generally worn when high concentrations of airborne substances could severely affect the skin. Since Level A required the use of SCBA, the eyes and respiratory system are also more protected.

Until air surveillance data become available to assist in the selection of the appropriate level of protection, the use of Level A may have to be based on indirect evidence of the potential for atmospheric contamination or other means of skin contact with severe skin affecting substances.

Conditions that may require Level A protection include:

- Confined spaces: Enclosed, confined, or poorly ventilated areas are conducive to the build up of toxic vapors, gases, or particles. (Explosive or oxygen-deficient atmospheres are also more probable in confined spaces). Confined-space entry does not automatically warrant wearing Level A protection, but should serve as a cue to carefully consider and to justify a lower level of protection.

- Suspected / known highly toxic substances: Various substances that are highly toxic, especially skin absorption, for example, fuming corrosives, cyanide compounds, concentrated pesticides, Department of Transportation Poison "A" materials suspected carcinogens, and infectious may be known or suspected to be involved. Field instruments may not be available to detect or quantify air concentrations of these materials. Until these substances are identified and concentrations measured maximum protection may be necessary.
- Visible emissions: Visible air emissions from leaking containers or railroad / vehicular tank cars, as well smoke from chemical fires and others indicate high potential for concentrations or substances that could be extreme respiratory or skin hazards.
- Job functions: Initial site entries are generally walk-through, in which instruments and visual observations are used to make a preliminary evaluation of the hazards.

In initial site entries, Level A should be worn when:

- There is a probability for exposure to high concentrations of vapors, gases, or particulates; and
- Substances are known or suspected of being extremely toxic directly to the skin or by being absorbed.

Subsequent entries are to conduct the many activities needed to reduce the environmental impact of the incident. Levels of protection for later operations are based not only on data obtained from the initial and subsequent environmental monitoring, but also on the probability of contamination and ease of decontamination.

Examples of situations where Level A has been worn are:

- Excavating of soil to sample buried drums suspected of containing high concentrations of dioxin;
- Entering a cloud of chlorine to repair a valve broken in a railroad accident;
- Handling and removing drums known to contain petroleum; and
- Responding to accidents involving cyanide, arsenic, and undiluted pesticides.

The fully encapsulating suit provides the highest degree of protection to skin, eyes, and respiratory system if the suit material resists chemicals during the time the suit is worn. While Level A provides maximum protection, all suit material may be rapidly permeated and degraded by certain chemicals from extremely high air concentrations, splashes, or an immersion of boots or gloves in concentrated liquids or sludges. These limitations should be

recognized when specifying the type of fully encapsulating suit. Whenever possible, the suit material should be matched with the substance it is used to protect against.

5.2 Level B Protection

1. PPE:

a. Positive-pressure SCBA (MSHA\NIOSH approved); or

b. Positive-pressure air line respirator (with escape bottle for IDLH potential for IDLH atmosphere) MSHA/NIOSH approved;

c. Chemical resistant clothing (overalls and long-sleeved jacket; coveralls or hooded one-or two-piece chemical splash suit; disposable chemical-resistant, one-piece suits);

d. Cotton long underwear*;

e. Coveralls;

f. Gloves (outer), chemical-resistant;

g. Gloves (inner), chemical-resistant;

h. Boots (inner), leather work shoe with steel toe and shank;

i. Boots (outer), chemical-resistant, (disposable);

j. Hard hat (face shield*);

k. 2-way radio communication*; and

l. Taping between suit and gloves; and suit and boots.

* Optional

2. Criteria for Selection

Any one of the following conditions warrants use of Level B Protection:

a. The type and atmospheric concentration of toxic substances have been identified and require a high level of respiratory protection, but less skin protection than Level A. These atmospheres would be:

- Have IDLH concentrations; or

- Exceed limits of protection afforded by an air-purifying mask; or

- Contain substances requiring air-supplied equipment, but substances and/or concentrations do not represent a serious skin hazard.

b. The atmosphere contains less than 19.5% oxygen.

c. Site operations make it highly unlikely that the work being done will generate high concentrations of vapors, gases or particulates, or splashes of material that will affect the skin of personnel wearing Level B protection.

d. Working in confined spaces.

e. Total atmospheric concentrations, sustained in the breathing zone, of unidentified vapors or gases range from 5 ppm above background to 500 ppm above background as measured by direct reading instruments such as the ID or PID or similar instruments, but vapors and gases are not suspected of containing high levels of chemicals toxic to skin

3. Guidance on Selection Criteria:

Level B equipment provides a reasonable degree of protection against splashes and to lower air concentrations, but a somewhat lower level of protection to skin than Level A. The chemical-resistant clothing required in Level B is available in a wide variety of styles, materials, construction detail, permeability, etc. Taping joints between the gloves, boot and suit, and between the hood and respirator reduces the possibility for splash and vapor or gas penetration. These factors all affect the degree of protection afforded. Therefore the Safety Officer should select the most effective chemical-resistant clothing based on the known or anticipated hazards and/or job function.
Level B does provide a high level of protection to the respiratory tract. Generally, if SCBA is required, Level B clothing rather that a fully encapsulating suit (Level A) is selected based on needing less protection against known or anticipated substances affecting the skin. Level B skin protection is selected by:

a. Comparing the concentrations of known or identified substances in air with skin toxicity data.
b. Determining the presence of substances that are destructive to or readily absorbed through the skin by liquid splashes, unexpected high levels of gases, vapor or particulates, or other means of direct contact;

and

c. Assessing the effect of the substance (at its measure air concentrations or splash potential) on the small area of the head and neck left unprotected by chemical-resistant clothing.

For initial site entry at an open site, Level B protection should protect site personnel, providing the conditions described in selecting Level A are known of judged to be absent.

5.3 Level C Protection

1. PPE

a. Full-face, air purifying, cartridge- or canister-equipped respirator (MSHA/NIOSH approved) with cartridges appropriate for the respiratory hazards;

b. Chemical-resistant clothing (coveralls, hooded, one-or two-piece chemical splash suit; chemical-resistant hood and apron; disposable chemical-resistant coveralls;

c. Coveralls;

d. Cotton long underwear*;

e. Gloves (outer), chemical resistant;

f. Gloves (inner), chemical-resistant

g. Boots (inner), leather work shoes with steel toes and shank;

h. Boots)outer), chemical-resistant (disposable)*;

i. Hard hat (face shield)*;

j. Escape SCBA of at least 5 minute duration;

k. 2-way radio communications (inherently safe)*; and

l. Taping between suit and boots, and suit and gloves.

* Optional

2. Criteria for Selection

Meeting all of these criteria permits use of Level C protection:

a. Measured air concentrations of Identified substances will be reduced

by the respirator to, at, or below the substance's Threshold Limit Value (TLV) or appropriate occupational exposure limit and the concentration is within the service limit of the canister.

b. Atmospheric contaminate concentrations do not exceed IDLH levels.

c. Atmospheric contaminants, liquid splashes, or other direct contact will not adversely affect the small area of the skin left unprotected by chemical-resistant clothing.

d. Job functions do not require SCBA;

e. Total readings register between background and 5 ppm above background as measured by instruments such as the FID of PID.

f. Oxygen concentration is not less than 19.5% by volume.

g. Air will be monitored continuously.

3. Guidance on Selection Criteria

Level C protection is distinguished from Level B by the equipment used to protect the respiratory system, assuming the same type of chemical-resistant clothing is used. The main selection criterion for Level C is that conditions permit wearing air-purifying devices. The air-purifying device must be a full-face mask (MSHA/NIOSH approved) equipped with a cartridge suspended from the chin or on a harness. Cartridges must be able to remove the substances encountered.

A full-face air purifying mask can be used only if:

a. Oxygen content of the atmosphere is at least 19.5% by volume;

b. Substance(s) is identified and its concentration(s) measured;

c. Substance(s) has adequate warning properties;

d. Individual passes a qualitative fit-test for the mask; and

e. Appropriate cartridge is used, and its service limits concentration is not exceeded.

An air-monitoring program is part of all response operations when atmospheric contamination is known or suspected. It is particularly important that the air be monitored thoroughly when personnel are wearing air-purifying

respirators (Level C). Continual surveillance using direct reading instruments and air sampling is needed to detect any changes in air quality necessitating a higher level of respiratory protection. Total unidentified vapor/gas concentrations exceeding 5 ppm above background required Level B.

5.4 Level D Protection

1. PPE

a. Coveralls, chemical-resistant;

b. Gloves (outer), chemical resistant;

c. Gloves (inner), chemical-resistant*;

d. Boots (inner), leather work shoes with steel toes and shank;

e. Boots (outer), chemical-resistant (disposable)*;

f. Hard hat;

g. Face shield*;

h. Safety glasses with side shields or chemical splash goggles*; and

i. Taping between suit and boots, and suit and gloves.

* Optional

2. Criteria for Selection

a. No atmospheric contamination is present.

b. Direct reading instruments do not indicate any readings above background.

c. Job functions have been determined not to require respirator protection.

3. Guidance on Selection Criteria

Level C protection is distinguished from Level D protection in the requirement for respiratory protection. Level D is used for non-intrusive activities or intrusive activities with continuous air monitoring. It can be worn only in areas where there is no possibility of contact with contamination.

6.0 TEMPERATURE EXTREMES

6.1 Heat Stress

Site personnel who wear protective clothing allow body heat to be accumulated with an elevation of the body temperature. Heat cramps, heat exhaustion, and heat stroke can be experienced, which, if not remedied, can threaten life or health. Therefore an American Red Cross Standard First Aid book or equivalent will be maintained on site at all time so that the SO and site personnel will be able to recognize symptoms of heat emergencies and be capable of controlling the problem. When protective clothing is worn, especially Levels A and B, the suggested guidelines for ambient temperature and maximum wearing time per excursion are:

Ambient Temperature (F)	Max. Wearing Time per Excursion (min)
Above 90	15
85 to 90	30
80 to 85	60
70 to 80	90
60 to 70	120
50 to 60	180

One method of measuring the effectiveness of employees' rest-recovery regime is by monitoring the heart rate. The Brouha guideline is one such method.

- During a three minute period, count the pulse rate for at least 30 seconds of the first minute, the last 30 seconds of the second minute, and the last 30 seconds of the third minute.
- Double the count.

If the recover pulse rate during the last thirty seconds of the first minute is at 110 beats/minute or less and the deceleration between the first, second, and third minutes is at least 10 beats/minute, the work-recovery regime is acceptable. If the employee's rate is above that specified, a longer rest period is required, accompanied by an increased intake of fluids.

In the case of heat cramps or heat exhaustion, "pediolite" or its equivalent is suggested as part of the treatment regime. The reason for this type of liquid refreshment is that such beverages will return much needed electrolytes to the system. Without these electrolytes, body systems cannot function properly, thereby increasing the represented health hazard. Also in the more extreme instances, inundation with cool water is recommended to lower the

body temperature as rapidly as possible.

This liquid refreshment will be stored in a cooler at the edge of the decontamination zone in plastic squeeze bottles. The plastic bottle swill be marked with the individual's names. Disposable cups with lids and straws may be used in place of the squeeze bottles. Prior to drinking within the decontamination zone, the project personnel shall follow the following decontamination procedures:

A. Personnel shall wash and rinse their outer gloves and remove them.

B. Personnel shall remove their hard hats and respirators and place on table.

C. Personnel shall remove their inner gloves and place them on table.

D. Personnel shall wash and rinse their face and hands.

E. Personnel shall carefully remove their personal bottle or cup from the cooler to ensure that their outer clothes do not touch any bottle, cups, etc.

F. The used bottle or cups will not be returned to the cooler, but will be placed in a receptacle or container to be cleaned or disposed of.

G. Personnel shall replace their respirators, hard hats gloves and tape gloves prior to re-entering the hazardous zone.

When personnel are working in situations where the ambient temperatures and humidity are high--and especially in situations where protection Levels A, B, and C are required the must:

- Assure that all employees drink plenty of fluids ("Pediolite or its equivalent);

- Assure that frequent breaks are scheduled so overheating does not occur; and,

- Revise work schedules, when necessary, to take advantage of the cooler parts of the day (i.e., 5:00 a.m. to 1:00 p.m., and 6:00 p.m. to nightfall).

6.2 Cold Stress

Whole-body protection shall be provided to all site personnel that have prolonged exposure to cold air. The right kind of protective clothing shall be provided to site personnel to prevent cold stress. The following dry clothing

shall be provided by the Contractor as deemed necessary by the SO:

- Appropriate underclothing (wool or other);
- Outer coats that repel wind and moisture;
- Face, head, and ear coverings;
- Extra pair of socks;
- Insulated safety boots; and
- Glove liners (wool) or wind-and water repellent gloves.

The SO will use the equivalent chill temperature when determining the combined cooling effect of wind and low temperatures on exposed skin or when determining clothing insulation requirements.

Site personnel working continuously in the cold are required to warm themselves on a regular basis. Warm, sweet drinks will also be provided to site personnel to prevent dehydration. The SO will follow the work practices and recommendations for cold stress threshold limit values as stated by the 1991-1992 Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices by the American Conference of Governmental Industrial Hygienists or equivalent cold stress prevention methods.

7.0 MEDICAL MONITORING REQUIREMENTS

All personnel and visitors entering an exclusion zone or decontamination zone must have completed appropriate medical monitoring requirements required under OSHA 29 CFR 1910.120(f). Medical monitoring enables a physician to monitor each employee's health and physical condition, fitness to wear respiratory protective equipment, and fitness to carry out on-site tasks.

If there are additional medical monitoring requirements for a site, evidence of compliance must be included. Documentation of ESPL personnel medical monitoring is maintained on file and summarized in Table 1-1. Subcontractors working on the job must provide the site safety officer with documentation on their medical monitoring programs.

7.1 Fit-Testing Requirements

All personnel and visitors entering an exclusion zone or decontamination zone using a negative pressure air purifying respirator (APR) must have successfully passed a qualitative respirator fit-test in accordance with OSHA 29 CFR 1910.134 or the American National Standards Institute.

Documenting fit-testing is the responsibility of each subcontractor. Documentation of ESPL personnel fit-testing is maintained on file and summarized in Table 1-1.

8.0 AIR MONITORING

According to 29 CFR 1910.120(h) air shall be monitored to identify and quantify levels of airborne hazardous substances and health hazards, and to determine the appropriate level of worker protection.

Air may be monitored for oxygen content, explosive levels (LEL), quantitative and qualitative toxic gas levels. Portable gas monitors will be used based on the hazard assessment. This section describes the type, purpose and method of air monitoring to be used on site.

8.1 Routine Air Monitoring Requirements

Type of Air Monitor to be used
MSA Four GAS Meter

Purpose
To monitor oxygen content, explosive levels (LEL), quantitative and qualitative toxic gas levels.

Method (continuous or periodic)
Continuous

Method of Maintenance and Calibration
Annual Calibration by Manufacture

Maintenance and Calibration Log

Date of Last Maintenance	Date of Last Calibration
_____	_____
_____	_____

Air will be monitored when any of the following conditions apply within the exclusion zone:

- Initial site entry;
- A potential IDLH condition or flammable atmosphere has developed;
- Work begins on another portion of the site;
- Contaminants, other than those previously identified, have been discovered;
- Each time a different task or activity is initiated; or
- During trenching and/or excavation work.

All air monitoring data will be documented in a site log book by the Site Safety Officer. Air monitoring instruments will be calibrated and maintained in accordance with the manufacturer's specifications.

Below are guidelines for actions to be taken based on routine air monitoring within the exclusion zone if the hazard assessment warrants. These are:

Oxygen readings between 19.5% and 25%: continue.
Oxygen readings <19.5%: SCBA required, CGI not reliable.
Oxygen readings >25%: exit.
CGI readings of <10% LEL: continue
CGI readings of 10 to 20% LEL: proceed with caution
CGI readings >20% LEL: exit.

OVA/Microtip readings for VOCs sustained between background and 5 ppm over site specific background in breathing zone:

Continue OVA/Microtip readings for VOCs sustained between 5 and 10 ppm over site-specific background in breathing zone: Level C PPE. (See Note)

OVA/Microtip readings for VOCs >10 ppm over site-specific background in breathing zone: Level B PPE.

Note: To ensure readings are not generated by methane, screen vapors with a PID. If the PID reading is less than 5 ppm continue work (assume vapors are methane). If PID readings are over 5 ppm allow the work zone to vent. If PID and OVA reading continue to persist over 5 ppm screen the area with compound specific detector tubes for vinyl chloride and benzene. If these compounds are not present then level C can be worn.

9.0 SITE CONTROL AND STANDARD OPERATING PROCEDURES

9.1 Work Zones

The primary purpose for site controls is to establish the perimeter of a hazardous area, to reduce migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. The Project Superintendent shall designate an exclusion zone, a decontamination zone, and a support zone. These zones will float (move around the site) depending on the tasks being performed on any given day. The Site Safety Officer will outline these locations during the daily site safety meetings. This information shall be recorded by the Site Safety Officer in the site log.

Tasks requiring the OSHA 40-hour Hazardous Waste Operations and

Emergency Response Operations training are carried out in the exclusion zone. The exclusion zone will be defined by the Site Safety Officer but will typically be a 50-foot area around work activities.

Protective equipment shall be removed within the decontamination zone. Disposable protective equipment shall be stored in receptacles staged in the decontamination zone, and non-disposable equipment will be decontaminated according to the procedures outlined in Section 10.0. All personnel and equipment will exit the exclusion zone through the decontamination zone. If, during certain steps of the work, a decontamination trailer is provided, first aid equipment, an eye wash unit, and drinking water shall be kept in the decontamination trailer.

The support zone will be used for the office trailers, for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water shall be kept at the command post. Gross decontamination (as determined by the site Health and Safety Officer) will be conducted in the exclusion zone, all other decontamination will be performed in the decontamination trailer. This HASP, HASP attachments, a site map indicating the three work zones, and a telephone will be kept in a designated office trailer. An eyewash and fire extinguisher shall be kept in the decontamination trailer or the command post.

9.2 General Field Safety and Standard Operating Procedures

ESPL's policy is to control hazards for all site areas by limiting entrance to exclusion zones to essential personnel, and by implementing the following:

- Non-essential (as judged by the Site Safety Officer) personnel and unauthorized persons will not enter the exclusion or decontamination zone.

- Before entering the exclusion or decontamination zones, all personnel must be familiar with emergency response procedures (Section 11.0), site safety locations, first aid and communication equipment, and the locations of the map to the hospital and the list of emergency telephone numbers.

- Before entering the exclusion or decontamination zones, all personnel must be familiar with emergency response procedures (Section 11.0), site safety locations, first aid and communication equipment, and the locations of the map to the hospital and the list of emergency telephone numbers.

- The buddy system will be used at all times by field personnel in the exclusion zone; no one is to perform work within the exclusion zone

alone. When in Level D or C, visual contact or radio contact shall be maintained at all times. In Level A or B, visual contact shall be maintained at all times, and radio contact shall be maintained with the decontamination and/or support zone.

- Contact with contaminated and potentially contaminated surfaces should be avoided. Walk around (not through) puddles and discolored surfaces. Do not kneel on the ground or set equipment on the ground. Protect equipment from contamination.

- All personnel exiting the exclusion zone must exercise the decontamination procedures described in Section 11.0 of this HASP.

- Beards or other facial hair that interferes with respirator fit will preclude admission to the exclusion zone. Contact lenses shall not be worn in the exclusion or decontamination zones, or if the worker may be expected to enter these zones under routine or emergency situations.
- Eating, drinking, or smoking is permitted only in designated areas in the support zone.

- Each worker must be supplied with and maintain his/her own personal protective equipment.

Note: These policies will be enforced by the ESPL Site Safety Officer with the delegated power of the Principal in Charge.

10.0 DECONTAMINATION PROCEDURES

The standard level D decontamination protocol shall be used in the decontamination zone.

All equipment and PPE exiting the exclusion zone must be decontaminated or properly discarded upon exit. All personnel must enter and exit the exclusion zone through the decontamination area. Due to the nature of the site work, the exclusion and decontamination zones may change. Plastic bags containing personal protective clothing and equipment will be placed in designated receptacles.

All boots and other potentially contaminated garments that have come in contact with the MSW will be cleaned in wash tubs with detergent/water solution and rinsed with water and must remain on site at all times. The wash water, rinse water, and residues will be collected and properly stored until sampling results are received and the final method of disposal can be determined. Disposable PPE, including spent respirator cartridges and canisters, will be properly bagged and disposed of. All contaminated boots, clothing, and equipment (e.g. leather boots, equipment carrying straps) that cannot be decontaminated will be disposed of with the disposable

garments or left on site in the decontamination trailer.

Heavy equipment will be decontaminated on a pad constructed of concrete or plastic sheeting that will allow water and residues to be collected in a trench. The decontamination water and residues will be drummed, sealed, and properly stored on-site to await proper disposal. The pad will serve a dual purpose, for decontamination, and to stop equipment leaving the site from tracking materials off site.

The **minimum** measures for Level B doffing and decontamination are:

- Deposit equipment used on site on plastic drop cloths;
- Scrub outer boots and gloves with a water and detergent solution and rinse off;
- Remove outer boots and outer gloves. Discard disposable outer garments in receptacle provided;
- Remove SCBA and face piece and place on rack provided;
- Remove tyvek/outer garment and place in receptacle provided;
- Remove inner gloves and deposit in receptacle provided; and
- Shower/wash face and hands.

The **minimum** measures for Level C doffing and decontamination are:

- Deposit equipment used on site on plastic drop cloths;
- Scrub outer boots and gloves (if worn) with a water and detergent solution and rinse off;
- Remove outer boots and outer gloves. Discard disposable outer garments in receptacle provided;
- Remove tyvek/outer garment and place in receptacle provided;
- Remove first pair of inner gloves;
- Remove respirator (using "clean" inner gloves) and place on rack provided;
- Remove last pair of inner gloves and deposit in receptacle provided; and,

- Shower/wash face and hands

The second to last item to be removed should be the APR, and the last item to be removed should be the last of several pairs of surgical gloves. Wearing several pairs of inner gloves permits layers to be removed as needed during various stages of the doffing procedure, and if the APR inadvertently becomes contaminated, inner gloves guard against bare hands contacting the APR.

11.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

11.1 Emergency Equipment On-Site / Site Communications

Type	Location
Private Telephones:	Site personnel
Two-Way Radios:	Site personnel, if required
Emergency Alarms	On-site vehicle horns*
First Aid Kits:	On-site
Fire Extinguisher:	On-site

* Horns: Air horns will be supplied to personnel at the discretion of the Project Superintendent or Site Safety Officer.

11.2 Emergency Telephone Numbers and Hospital Information

Police	911
Fire and Ambulance	911
Local Hospital(Beth Israel Medical Center)	(212) 420-2000
Local Health Department	(212) 865-1951
NYS Health Department	(518) 458-6309
National Response Center	(800) 424-8802
Poison Control	(800) 282-3171
Chemical Emergency Advice	(800) 424-9300
NYSDEC	(718) 482-4634
ESPL Environmental	(212) 330-7501

11.3 Personnel Responsibilities During an Emergency

The **Project Superintendent** is primarily responsible for responding to and correcting emergency situations. However, in the absence of the Project Superintendent, the **Safety Officer** shall act as the Project Superintendent's on-site designee, and perform the following tasks:

- Take appropriate measures to protect personnel including: withdrawal from the exclusion zone, total evacuation and securing of the site, or upgrading or downgrading the level of protective clothing and respiratory protection;

- Ensure that appropriate federal, state, and local agencies are informed, and emergency response plans are coordinated; In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are released to the air, the local authorities should be informed in order to assess the need for evacuation;
- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;

- Determine the cause of the incident and make recommendations to prevent recurrence; and,

- Ensure that all required reports have been prepared.

The emergency coordinators for this work are:

Project Superintendent	-	Margaret Tavares (646-772-8820)
Site Safety Officer	-	Margaret Tavares (646-772-8820)

11.4 Medical Emergencies

Any person who becomes ill or injured in the exclusion zone must be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination should be completed and first aid administered prior to transport. First aid should be administered while awaiting an ambulance or paramedics.

11.5 Fire or Explosion

In the event of a fire or explosion, the local fire department should be summoned immediately. The Project Superintendent or his designated alternate will advise the fire commander of the location, nature and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- Use fire fighting equipment available on site; or,
- Remove or isolate flammable or other hazardous materials that may contribute to the fire.

11.6 Evacuation Routes

Evacuation routes established by work area locations for this site will be highlighted on a site map and periodically reviewed during the daily safety meetings. As the work areas change, the evacuation route and map will be altered accordingly, and the new route will be reviewed during the daily safety meetings.

Under extreme emergency conditions, evacuation should be conducted immediately, without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel shall follow these instructions:

- Keep upwind of smoke, vapors, or spill location.
- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, site personnel should remove contaminated clothing once they are in a safe location and leave it near the exclusion zone or in a safe place.
- The Project Superintendent or Site Safety Officer will conduct a head count to ensure that all personnel have been evacuated safely. The head count will be correlated to the site and/or exclusion zone entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency situation and decontaminate to the maximum extent practical.

11.7 Spill Control Procedures

In the event of a leak or a release, site personnel will:

- Inform their supervisor immediately;
- Locate the source of the spillage and stop the flow if it can be done safely; and,

- Begin containment and recovery of the spilled materials.

Equipment on-site shall be sufficient to handle any spills. Equipment shall be diked and containerized appropriately. Field monitoring equipment and spill control equipment are shown in Table 11-1.

11.8 Vapor Release Plan

The site work will be suspended if air monitoring at the site perimeter shows air contaminants above acceptable concentrations. Off-site readings will be taken within 20 feet of the nearest residential or commercial property. If efforts to mitigate the emission source are unsuccessful for 30 minutes then the ESPL Site Safety Officer will:

- contact the local police,
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If two successive readings are within acceptable levels, off-site air monitoring, would be halted.

All property line and off-site air monitoring locations and results associated with vapor releases shall be recorded in the site safety log book.

11.9 Communication Procedures

Type of communication to be used:
(i.e. cellular phone, Two-way radio, etc.)

<u>Cell phones</u>

The following standard hand signals will be used in case of failure of communication equipment:

Hand gripping throat	Out of air, can't breathe
Grip partners wrist or both hands around waist.....	Leave area immediately
Hand on top of head.....	Need assistance
Thumbs up.....	OK, I am all right, I understand
Thumbs down.....	No, negative

TABLE 11-1
FIELD EQUIPMENT/SPILL CONTROL EQUIPMENT

Equipment	Location/Use

12.0 CONFINED SPACE

On January 14, 1993, OSHA published its Final Rule on permit required confined spaces for General Industry at 29CFR 1910.146 et seq., with an implementation date of April 15, 1993. The rule specifically excludes agriculture, construction, or shipyard employment, but prudence requires that this HASP cover confined space entry and the OSHA rule will be followed. OSHA defines confined space as:

1. is large enough and so configured that an employee can bodily enter and perform assigned work;

2. has limited or restricted areas for entry or exit (for example, tanks, vessels, silos, storage bins, hoppers, vaults, and pits are spaces that may have limited entry); and

3. is not designed for continuous employee occupancy.

OSHA further requires that an "entry supervisor" (the site safety officer) decides at the time of entry whether the space is permit required or non-permit required space. Once designated the site safety officer will monitor the space two hours prior to entry and continuously during work to ensure that the atmosphere is not hazardous. OSHA defines as hazardous atmosphere as:

1. Flammable gas, vapor, or mist in excess of 10 percent of its lower explosive limit (LEL);

2. Airborne combustible dust at a concentration that meets or exceeds its LEL;
   NOTE: This concentration may be approximated as a condition in which the dust obscures vision at a distance of 5 feet (1.52 m) or less.

3. Atmospheric oxygen concentration below 19.5 percent or above 23.5 percent

4. Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in Subpart G, Occupational Health and Environmental Control, or in Subpart Z. Toxic and Hazardous Substances, of this part and which could result in employee exposure in excess of its dose or permissible exposure limit;
5. Any other atmospheric condition that is immediately dangerous to life or health.

The space is non-permit required if none of the above defined hazardous conditions are present. OSHA requires an attendant (e.g., an individual stationed outside one or more spaces who monitors the entrants and who performs air monitoring of the space(s) be assigned for each space. The attendant is not allowed to perform any rescue duties but simply must communicate with the entrant and call for coordinates rescue procedures if required.

12.1 Confined Space Entry Procedure

Confined space entry that will require a permit may be required during construction at the site. If the Site Safety Officer determines that an excavation meets the definition of a confined space then natural or mechanical ventilation will be employed to ensure that the space meets the requirements of non-permit required confined space. The Site Safety Officer

will perform continuous air monitoring one hour before and during entry work to ensure that the space remains non-permit required.

A confined space entry permit must be filled out and signed by the Site Safety Officer. By signing this, the supervisor certifies that the space does not contain a hazardous atmosphere, and that the atmosphere will be monitored. A confined space entry permit form is located in New York State Department of Labor, Employer Guide and Model (Permit Required Confined Space Entry Plan (29 CFR Part 1910.146) located at the end of this section or at the ESPL office. This permit will be modified by the Site Safety Officer for different confined spaces.

Blowers will be utilized to ventilate the space.
When workers are in the excavation, the space must be continuously monitored for the hazardous atmosphere parameters using appropriate instrumentation. The Site Safety Officer or delegee must log the meter readings every 30 minutes while the confined space is occupied.

If a hazardous atmosphere is detected, employees must leave confined space until monitoring shows that there is no atmosphere hazard. Engineering controls will be used to dissipate the atmosphere if it does not dissipate naturally.

13.0 DAILY SAFETY MEETINGS

Safety or pre-entry meetings will be held each day before work begins, to ensure that all on-site personnel understand site conditions and operating procedures, and to address safety questions and concerns. The Site Safety Officer or the Project Superintendent will lead the meetings. All personnel trained and prepared to enter exclusion and decontamination zones will attend the meetings.

The site safety officer shall maintain a log of each meeting.

14.0 WORK PLAN

14.1 Work Tasks, Objectives and Methods for Implementation

(Describe specifically who will be working on tasks to be performed and their functions)

Margaret Tavares, overall site supervisor to coordinate all field activities related to environmental investigations.
Margaret Tavares, site health and safety officer to coordinate and ensure compliance to all site-specific safety plans.

Location of Exclusion, Decontamination and Support Zones. (Include a location drawing if necessary)

_____
_____
_____

14.2 Clean Up / Decontamination Activities and Procedures

(Describe specifically who will be working on tasks to be performed and their functions)
FieldSupervisor_____
_____
_____
_____
_____

14.3 Informational Programs

To ensure that employees, contractors, and subcontractors (or their representatives) are aware of this plan all persons engaged in operations at this site must sign the Site Personnel Form indicating that they are familiar with this Site Health and Safety Plan prior to commencing operations.

Site Personnel Log

I have reviewed and am familiar with the Site Health and Safety Plan for the following site:

75 Eckford Street LLC
75 Eckford Street
Brooklyn, New York 11222

Name	Company or Affiliation	Date	Remarks

14.4 Medical Surveillance Program

Refer to Section 7.0

14.5 Personnel Requirements

Refer to Section 2.0

14.6 - Training Implementation

Refer to Section 4.0

Appendix D

Soil Boring Logs
Monitoring Well Logs

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SB-1 **Sampling Area:**	Date: March 6, 2014 Start Time: 8:45 AM Time Completion: 10:50 AM **Project #:** 126-3 Location: 75 Eckford St. Brooklyn, NY Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc. Drilling Method: Geo-probe Borehole Dia.: 2" Drilling Rig: N/A Drilling Fluid Used: N/A Driver Hammer Weight: N/A Hammer Drop: N/A Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.	Driller: Todd Sampling Interval: 4' Total Depth Drilled (ft) 19 Ground Elevation: ____ Ground Water Level

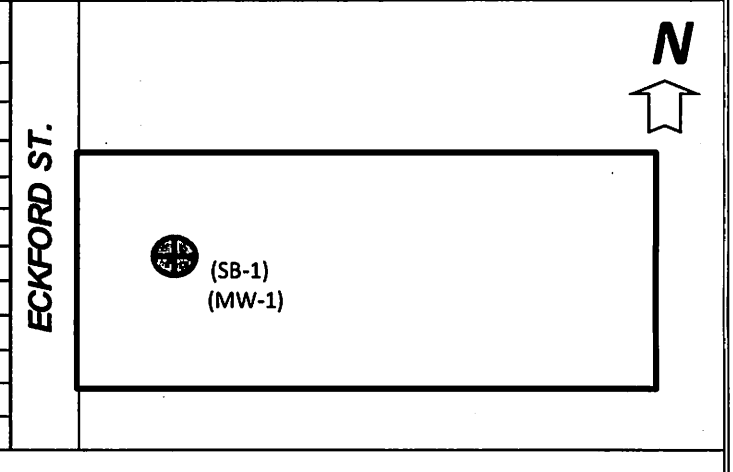
SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)	30"	15	Y	-	9:10	2" Concrete, 28" Brown/black sand, silt, fill material Sample ID: SB-1(0-2)
(4-8)	30"	28	-	N	--	30" Brown/black sand, silt and fill material
(8-12)	24"	1,680	Y	-	9:30	12" Brown/black sand, silt, 12" Black sand silt, Petroleum Odor.GW encountered Sample ID: SB-1(8-12)
(12-16)	30"	1,460	-	-	--	30" Black sand, Petroleum Odor

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 3 **Total**

Remarks/Observations:

This soil boring was converted to the Monitoring well (MW-1)

Petroleum Odor at 8'-16' was detected



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SB-2

Sampling Area:

Date: March 6, 2014 Start Time: 11:35 AM Time Completion: 1:15 PM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

Sampling Interval: 4'

Total Depth Drilled (ft) 19 Ground Elevation: Ground Water Level

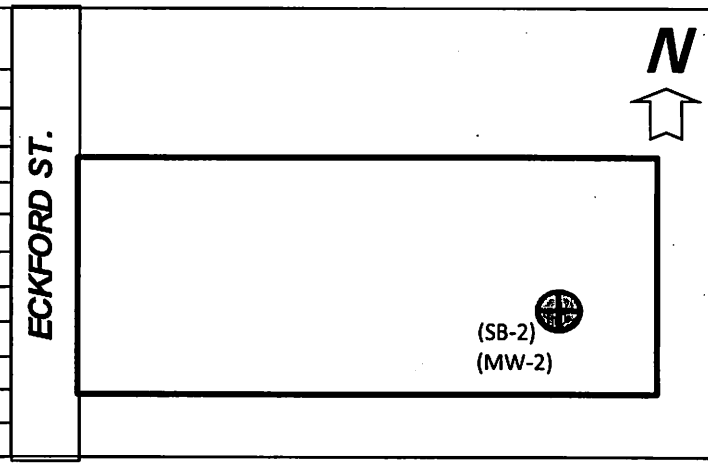
SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)	36"	8	Y	-	12:00	3" Concrete,33"Brown/black sand, silt, stone, brick, fill material Sample ID: SB-2(0-2)
(4-8)	42"	0	-	N	--	42 Light brown sand, silt and layers of brick, stone, coal" Brown/black sand, silt and fill material
(8-12)	36"	34	Y	-	12:20	12" Brown, sand, silt, fill material, 24" Black sand silt stone, coal ash, wood, brick, coal, Petroleum Odor on the tip. GW encountered SB-2(8-12)
(12-16)	30"	112	N	-	--	6" Brown/black coal, sand, silt, 12" White coal ash, 12" Black sand, stone, silt mixed, Petroleum Odor.

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 3 **Total**

Remarks/Observations:

This soil boring was converted to the Monitoring well (MW-2)

Petroleum Odor at 12'-16' was detected



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SB-3

Sampling Area:

Date: March 6, 2014 Start Time: 10:50 AM Time Completion: 11:35 AM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

Sampling Interval: 4'

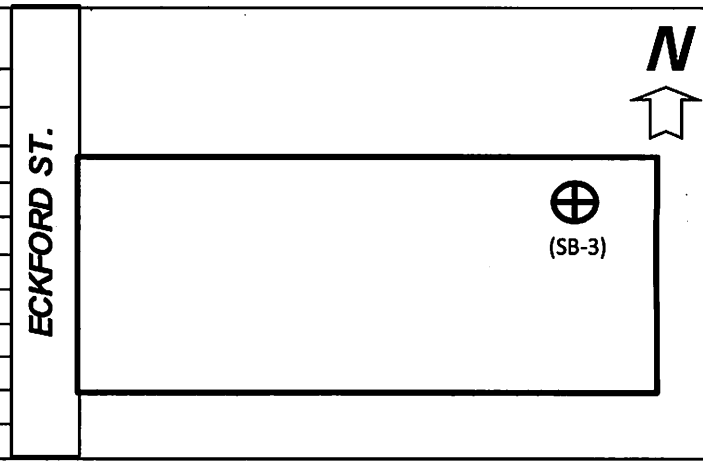
Total Depth Drilled (ft) 18 Ground Elevation: ____ Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)	18"	16	Y	-	11:15	3" Concrete,15"Brown/black sand, silt, fill material, stone on tip Sample ID: SB-3(0-2)
(4-8)	36"	22	-	N	--	36" Brown/black sand, silt and fill material
(8-12)	42"	495	Y	-	11:35	12" Brown, sand, silt, fill material, 18" gray sand silt coal, white coal ash (3" layer), 12" Gray silt, sand, wood. Petroleum Odor SB-3(8-12)

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 2 **Total**

Remarks/Observations:

Petroleum Odor at 8'-12' was detected



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SB-4

Sampling Area:

Date: March 6, 2014 Start Time: 2:25 PM Time Completion: 3:10 PM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

Sampling Interval: 4'

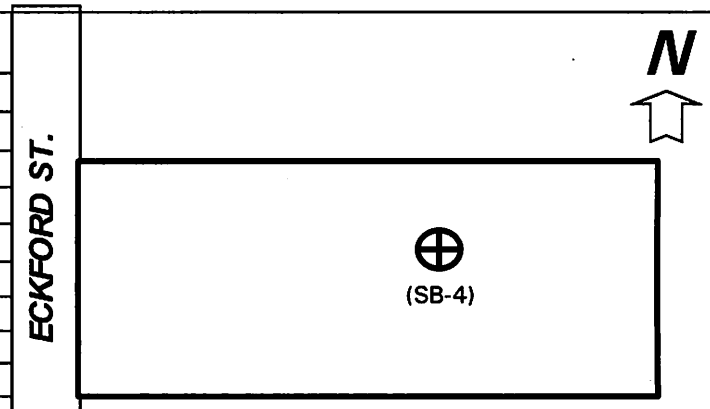
Total Depth Drilled (ft) 18 Ground Elevation: ____ Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)	36"	10	Y	-	2:45	2" Concrete, 4" Broken concrete/item4 sub-slab, 12" Black sand, stone, brick, 18" Brown sand silt, stone Sample ID: SB-4(0-2)
(4-8)	12"	68	-	N	--	12" Brown sand, silt, stone. Stone on the tip
(8-12)	36"	1,180	Y	-	3:00	30" Brown sand, silt, stone, 6" Black sand silt and stone, Petroleum Odor SB-4(8-12)

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 2 **Total**

Remarks/Observations:

Petroleum Odor at 8'-12' was detected



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SB-5

Sampling Area:

Date: March 6, 2014 Start Time: 1:30 PM Time Completion: 2:25 PM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

Sampling Interval: 4'

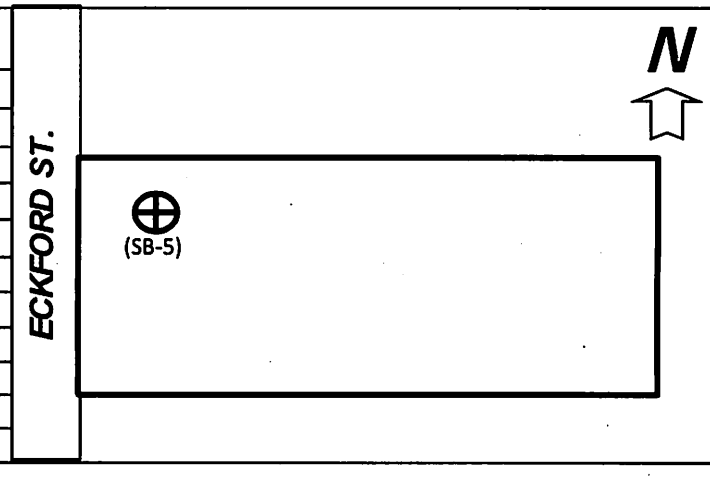
Total Depth Drilled (ft) 18 Ground Elevation: ____ Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)	30"	18	Y	-	1:50	3" Concrete, 6" Broken concrete/item4 sub-slab, 6" Black sand, coal, 15" Brown sand mixed fill, stone, brick Sample ID: SB-5(0-2)
(4-8)	36"	30	-	N	--	12" Mixed stone, sand, brick, silt, 12" Light brown sand, silt and stone, 12" Gray sand silt and stone, 12" Gray sand silt and stone
(8-12)	40"	42	Y	-	2:15	42" Gray/brown sand, silt, stone, coal. Slight Petroleum odor at the bottom SB-5(8-12)

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock ___ GW 2 **Total**

Remarks/Observations:

Petroleum Odor at 8'-12' was detected



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SVP-1

Sampling Area:

Date: March 6, 2014 Start Time: 9:00 AM Time Completion: 10:30 AM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

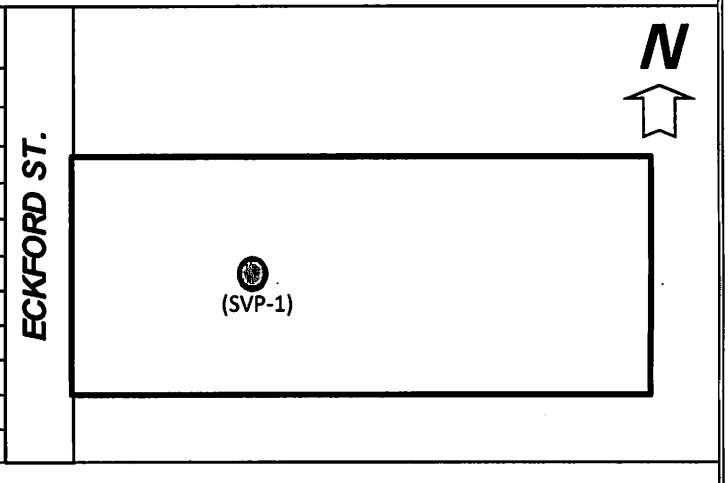
Sampling Interval: 4'

Total Depth Drilled (ft) 18 Ground Elevation: Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-2)			Y	-	4:15	2" Concrete, 28" Brown/black sand, silt, fill material

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock GW 2 **Total**

Remarks/Observations:



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SVP-2

Sampling Area:

Date: March 6, 2014 Start Time: 9:00 AM Time Completion: 10:30 AM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

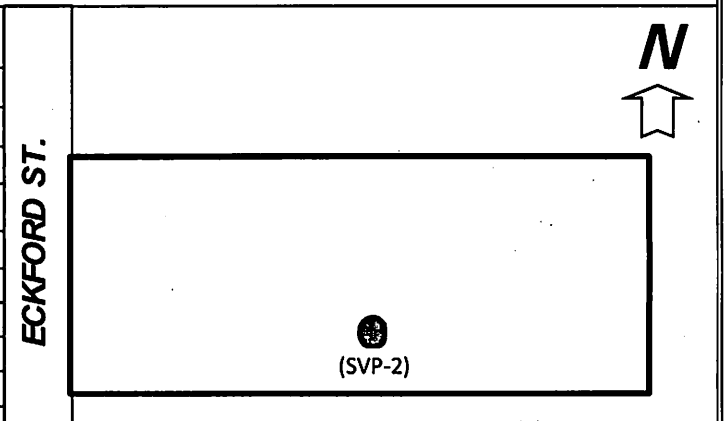
Sampling Interval: 4'

Total Depth Drilled (ft) 18 Ground Elevation: Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(0-4)			Y	-	4:20	2" Concrete, 28" Brown/black sand, silt, fill material

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 2 **Total**

Remarks/Observations:



Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

BORING LOG

BH NO. SVP-3

Sampling Area:

Date: March 6, 2014 Start Time: 9:00 AM Time Completion: 10:30 AM

Project #: 126-3

Location: 75 Eckford St. Brooklyn, NY

Coordinates / Ref. Points (Datum): Concrete Slab Finished Elevation

Drilling Contractor: Syska Inc.

Drilling Method: Geo-probe Borehole Dia.: 2"

Drilling Rig: N/A Drilling Fluid Used: N/A

Driver Hammer Weight: N/A Hammer Drop: N/A

Length and Diameter Coring Device: 4 ft long section, 2 Inch Dia.

Driller: Todd

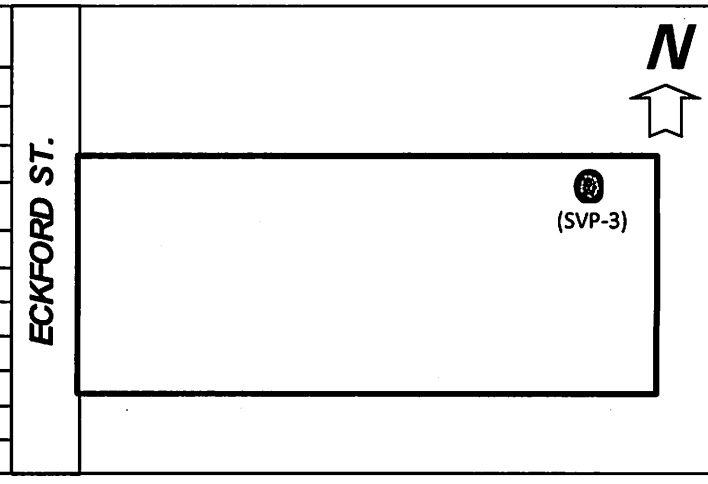
Sampling Interval: 4'

Total Depth Drilled (ft) 18 Ground Elevation: ____ Ground Water Level

SAMPLE / DEPTH (ft)	Core Recovery (ft)	PID/Field Reading (PPM)	Sample			DESCRIPTION
			Y	N	Time	
(8-12)	24"	1,680	Y	-	4:25	12" Brown/black sand, silt, 12" Black sand silt, Petroleum odor

Total Samples Collected: Soil/Sediment/Rock and Groundwater: 2 S -- Sediment -- Rock 1 GW 2 **Total**

Remarks/Observations:



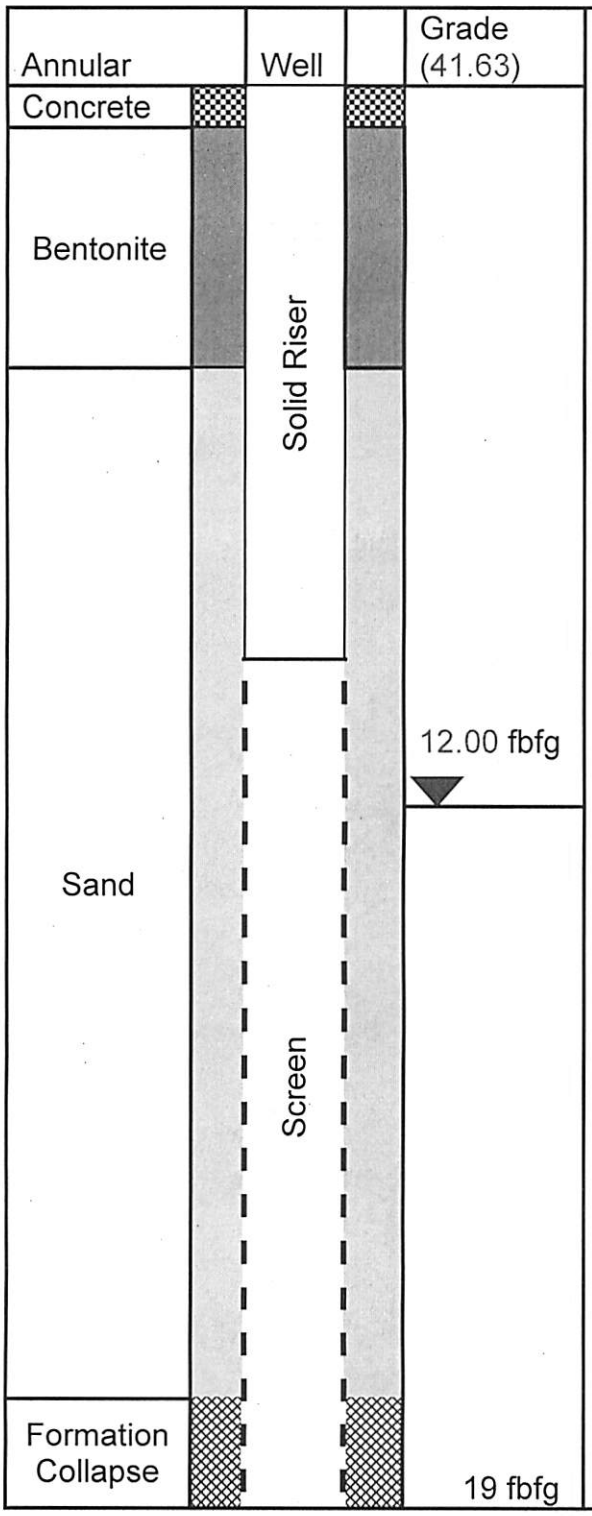
Prepared By: RL Date: 3/7/2014

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

WELL CONSTRUCTION LOG

Boring ID No. SB-1 Monitoring Well ID No.: MW-1



Project No.: 126-3

Address: 75 Eckford St.
Town/City: Brooklyn,
County: Kings State: NY

Land-Surface Elevation: 41.63 feet
■ Surveyed ☐ Estimated

Depth to Water Elevation - 12 fbfg

Installation Date(s): 03/6/2014
Drilling Method Geoprobe
Drilling Contractor Todd
Drilling Fluid N/A
Bore Hole dia. (2 1/8) Inch
Well Casing dia. (2 1/8) Inch
Well Screen dia. (1.0) Inch

Well Construction Description: 8 feet of 1"X5 ' PVC solid riser, 10 feet of 1" X 5' PVC 20 slot screen

Well Development Technique(s) & Date(s): Peristaltic pump. March 6, 2014

Water Removed During Development: 1.0 gal.

Well Purpose: GW Sampling & Monitoring

Remarks:
Monitoring well was installed on March 6, 2014

Measuring Point is Grade Unless Otherwise Noted.
*Depth Below Finished Grade
fbfg = feet below finished grade

Prepared by RL

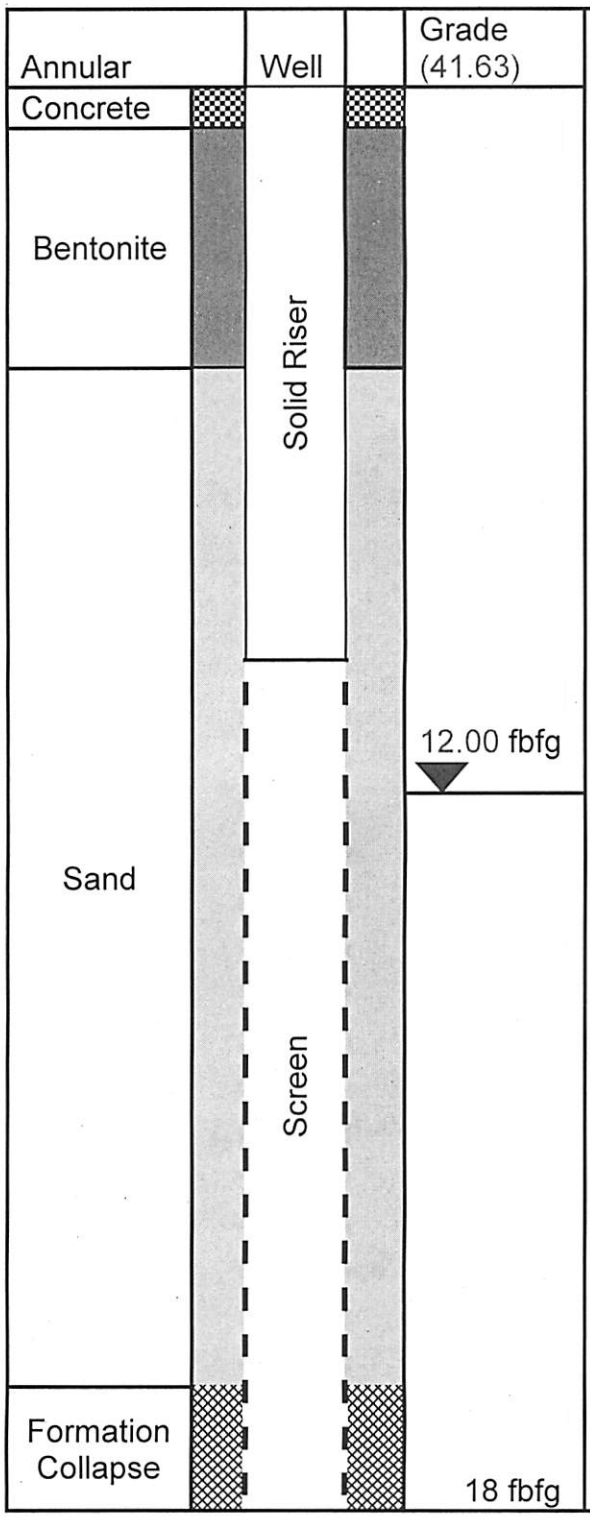
G:\FORMS/Well Const. Log

ESPL Environmental Consultants Corp.

2 W 32nd Street, 5th Floor, New York, NY 10001 Tel: (212) 330-7501

WELL CONSTRUCTION LOG

Boring ID No. SB-2 Monitoring Well ID No.: MW-2



Project No.: 126-3

Address: 75 Eckford St.
Town/City: Brooklyn,
County: Kings State: NY
Land-Surface Elevation: 41.63 feet
■ Surveyed ☐ Estimated

Depth to Water Elevation - 12. fbfg

Installation Date(s): 03/6/2014
Drilling Method Geoprobe
Drilling Contractor Todd
Drilling Fluid N/A
Bore Hole dia. (2 1/8) Inch
Well Casing dia. (2 1/8) Inch
Well Screen dia. (1.0) Inch

Well Construction Description: 8 feet of 1"X5 ' PVC solid riser, 10 feet of 1" X 5' PVC 20 slot screen

Well Development Technique(s) & Date(s): Peristaltic pump, and/or bailer. March 6,2014

Water Removed During Development: 1.5 gal.

Well Purpose: GW Sampling & Monitoring

Remarks:
Monitoring well was installed on March 6, 2014

Measuring Point is Grade Unless Otherwise Noted.
*Depth Below Finished Grade
fbfg = feet below finished grade

Prepared by RL

Appendix E

Tabulated Data
Soil

TABLE 1
75 Eckford Street
Volatile Organic Compounds Analysis (VOC)
Soil Samples

Sample ID	SB-1(0-2)	SB-1(8-	SB-2(0-2)	SB-2(8-	SB-3 (0-2)	SB-3(8-	SB-4(0-2)	SB-4(8-12)	SB-5(0-2)	SB-5(8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA Methodology	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	250	-	227	-	50	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
1,1,1,2-Tetrachloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,1,1-Trichloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	680	100,000
1,1,2,2-Tetrachloroethane	< 3.4	< 920	< 2.5	< 1100	< 3.8	< 190	< 3.2	< 190	< 3.3	< 2.4		
1,1,2-Trichloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,1-Dichloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	270	19,000
1,1-Dichloroethene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	330	100,000
1,1-Dichloropropene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,2,3-Trichlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,2,3-Trichloropropane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,2,4-Trichlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,2,4-Trimethylbenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	3,600	47,000
1,2-Dibromo-3-chloropropa	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,2-Dichlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	1,100	100,000
1,2-Dichloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	20	2,300
1,2-Dichloropropane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,3,5-Trimethylbenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	8,400	47,000
1,3-Dichlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	2,400	17,000
1,3-Dichloropropane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
1,4-Dichlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	1,800	9,800
2,2-Dichloropropane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
2-Chlorotoluene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
2-Hexanone	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
2-Isopropyltoluene	< 28	< 7700	< 21	< 9200	< 32	< 1600	< 27	< 1600	< 28	< 20		
4-Chlorotoluene	< 5.6	4,500	< 4.2	27,000	< 6.4	380	< 5.3	1,700	< 5.5	< 4.0		
4-Methyl-2-pentanone	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Acetone	< 28	< 7700	< 21	< 9200	< 32	< 1600	< 27	< 1600	< 28	< 20	50	100,000
Acrylonitrile	< 34	< 9200	< 25	< 11000	< 38	< 1900	< 32	< 1900	< 33	< 50		
Benzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	60	2,900
Bromobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Bromochloromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Bromodichloromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Bromoform	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Bromomethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Carbon Disulfide	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Carbon tetrachloride	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	760	1,400
Chlorobenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	1,100	100,000
Chloroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Chloroform	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	370	10,000
Chloromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
cis-1,2-Dichloroethene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	250	59,000
cis-1,3-Dichloropropene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	1,200		
Dibromochloromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Dibromoethane	< 3.4	< 920	< 2.5	< 1100	< 3.8	< 190	< 3.2	< 190	< 3.3	< 2.4		
Dibromomethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Dichlorodifluoromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Ethylbenzene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	1,000	30,000
Hexachlorobutadiene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Isopropylbenzene	< 5.6	< 1500	< 4.2	3,000	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
m&p-Xylene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Methyl Ethyl Ketone	< 34	< 9200	< 25	< 11000	< 38	< 1900	< 32	< 1900	< 33	< 24	120	100,000
Methyl t-butyl ether (MTBE	< 11	< 3100	< 8.4	< 3700	< 13	< 650	< 11	< 640	< 11	< 8.0	930	62,000
Methylene chloride	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	50	51,000
Naphthalene	< 5.6	< 1500	5.1	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		100,000

TABLE 1
75 Eckford Street
Volatile Organic Compounds Analysis (VOC)
Soil Samples

Sample ID	SB-1(0-2)	SB-1(8-	SB-2(0-2)	SB-2(8-	SB-3 (0-2)	SB-3(8-	SB-4(0-2)	SB-4(8-12)	SB-5(0-2)	SB-5(8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA Methodology	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	250	-	227	-	50	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
n-Butylbenzene	< 5.6	4,900	< 4.2	8,000	< 6.4	< 320	< 5.3	580	< 5.5	< 4.0	12,000	100,000
n-Propylbenzene	< 5.6	< 1500	< 4.2	3,100	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	3,900	100,000
o-Xylene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
p-Isopropyltoluene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
sec-Butylbenzene	< 5.6	9,000	< 4.2	50,000	< 6.4	2,000	< 5.3	4,600	< 5.5	< 4.0	11,000	100,000
Styrene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
tert-Butylbenzene	< 5.6	2,100	< 4.2	15,000	< 6.4	< 320	< 5.3	960	< 5.5	< 4.0	5,900	100,000
Tetrachloroethene	6.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	1,300	5,500
Tetrahydrofuran (THF)	< 11	< 3100	< 8.4	< 3700	< 13	< 650	< 11	< 640	< 11	< 8.0		
Toluene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	380	< 5.5	< 4.0	700	100,000
Total Xylenes	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
trans-1,2-Dichloroethene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		100,000
trans-1,3-Dichloropropene	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
trans-1,4-dichloro-2-butene	< 11	< 3100	< 8.4	< 3700	< 13	< 650	< 11	< 640	< 11	< 8.0		
Trichloroethene	< 5.6	< 1500	620	< 1800	< 6.4	< 320	< 5.3	< 320	1,800	< 4.0	470	10,000
Trichlorofluoromethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Trichlorotrifluoroethane	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0		
Vinyl chloride	< 5.6	< 1500	< 4.2	< 1800	< 6.4	< 320	< 5.3	< 320	< 5.5	< 4.0	20	210

Values Exceed NYSDEC levels
ND Not Detected
BD Below Detection Level

TABLE 2
75 Eckford Street
Semi-Volatile Organic Compounds Analysis (SVOC)
Soil Samples

Sample ID	SB-1(0-2)	SB-1(8-12)	SB-2(0-2)	SB-2(8-12)	SB-3(0-2)	SB-3(8-12)	SB-4(0-2)	SB-4(8-	SB-5(0-2)	SB-5(8-12)	Trac 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA Methodology	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	10	-	10	-	10	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
1,2,4,5-Tetrachlorobenzene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
1,2,4-Trichlorobenzene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
1,2-Dichlorobenzene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
1,3-Dichlorobenzene	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
1,4-Dichlorobenzene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2,4,5-Trichlorophenol	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2,4,6-Trichlorophenol	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
2,4-Dichlorophenol	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2,4-Dimethylphenol	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
2,4-Dinitrophenol	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2,4-Dinitrotoluene	< 610	< 290	< 590	< 330	< 620	< 290	< 560	< 640	< 590	< 610		
2,6-Dinitrotoluene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2-Chloronaphthalene	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
2-Chlorophenol	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2-Methylnaphthalene	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
2-Methylphenol (o-cresol)	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
2-Nitroaniline	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
2-Nitrophenol	< 610	< 290	< 590	< 330	< 620	< 290	< 560	< 640	< 590	< 610		
3&4-Methylphenol (m&p-cresol)	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
3,3'-Dichlorobenzidine	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
3-Nitroaniline	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
4,6-Dinitro-2-methylphenol	< 610	< 290	< 590	< 330	< 620	< 290	< 560	< 640	< 590	< 610		
4-Bromophenyl phenyl ether	< 1100	< 11000	< 1100	< 14000	< 1100	< 12000	< 1000	< 1200	< 1100	< 1100		
4-Chloro-3-methylphenol	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
4-Chloroaniline	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
4-Chlorophenyl phenyl ether	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
4-Nitroaniline	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
4-Nitrophenol	< 610	< 6200	< 590	< 7700	< 620	< 6700	< 560	< 640	< 590	< 610		
Acenaphthene	< 1100	< 290	< 1100	< 330	< 1100	< 290	< 1000	< 1200	< 1100	< 1100	20,000	100,000
Acenaphthylene	< 270	920	< 260	420	< 270	950	310	< 280	< 260	< 270	100,000	100,000
Acetophenone	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Aniline	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Anthracene	< 330	< 290	< 330	< 330	< 330	< 290	< 330	< 330	< 330	< 330	100,000	100,000
Azobenzene	< 270	390	< 260	< 330	400	890	700	< 280	< 260	< 270		
Benz(a)anthracene	570	720	600	540	1,300	1,300	2,200	< 280	< 260	< 270	1,000	1,000
Benzidine	< 460	< 4700	< 440	< 5800	< 460	< 5000	< 420	< 480	< 440	< 450		
Benzo(a)pyrene	550	1,100	560	420	1,300	940	1,800	< 280	< 260	270	1,000	1,000
Benzo(b)fluoranthene	730	1,300	650	680	1,500	1,100	2,500	< 280	< 260	350	1,000	1,000
Benzo(ghi)perylene	460	1,000	410	< 330	980	620	860	< 280	300	< 270	100,000	100,000
Benzo(k)fluoranthene	< 270	410	270	710	530	510	1,100	< 280	< 260	< 270	800	1,000
Benzoic acid	< 1100	< 11000	< 1100	< 14000	< 1100	< 12000	< 1000	< 1200	< 1100	< 1100		
Benzyl butyl phthalate	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
Bis(2-chloroethoxy)methane	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Bis(2-chloroethyl)ether	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
Bis(2-chloroisopropyl)ether	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Bis(2-ethylhexyl)phthalate	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
Carbazole	< 570	< 5800	< 550	< 7200	< 580	< 6300	< 530	< 600	< 550	< 570		
Chrysene	590	810	580	620	1,300	1,200	2,200	< 280	< 260	290	1,000	1,000
Dibenz(a,h)anthracene	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270	330	330
Dibenzofuran	< 270	< 2700	< 260	< 3400	< 270	< 2900	260	< 280	< 260	< 270		
Diethyl phthalate	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Dimethylphthalate	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
Di-n-butylphthalate	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Di-n-octylphthalate	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
Fluoranthene	1,000	1,500	1,200	980	2,400	4,000	3,400	< 280	370	470	100,000	100,000
Fluorene	< 270	510	< 260	400	< 270	880	280	< 280	< 260	< 270	30,000	100,000
Hexachlorobenzene	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
Hexachlorobutadiene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Hexachlorocyclopentadiene	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Hexachloroethane	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Indeno(1,2,3-cd)pyrene	360	810	340	< 330	780	540	830	< 280	< 260	< 270	500	500

TABLE 2
75 Eckford Street
Semi-Volatile Organic Compounds Analysis (SVOC)
Soil Samples

Sample ID	SB-1(0-2)	SB-1(8-12)	SB-2(0-2)	SB-2(8-12)	SB-3(0-2)	SB-3(8-12)	SB-4(0-2)	SB-4(8-	SB-5(0-2)	SB-5(8-12)	Trac 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA Methodology	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	10	-	10	-	10	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
Isophorone	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
Naphthalene	< 270	< 2700	< 260	< 3400	< 270	< 2900	340	< 280	< 260	< 270	12,000	100,000
Nitrobenzene	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270		
N-Nitrosodimethylamine	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
N-Nitrosodi-n-propylamine	< 270	< 2700	< 260	< 3400	< 270	< 2900	< 250	< 280	< 260	< 270		
N-Nitrosodiphenylamine	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
Pentachloronitrobenzene	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		
Pentachlorophenol	< 380	< 290	< 370	< 330	< 390	< 290	< 350	< 400	< 370	< 380	800	2,400
Phenanthrene	700	890	1,100	1,400	2,100	3,600	3,200	< 280	520	330	100,000	100,000
Phenol	< 270	< 290	< 260	< 330	< 270	< 290	< 250	< 280	< 260	< 270	330	100,000
Pyrene	850	1,300	990	870	2,200	3,700	3,000	< 280	320	460	100,000	100,000
Pyridine	< 380	< 3900	< 370	< 4800	< 390	< 4200	< 350	< 400	< 370	< 380		

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 2A
75 Eckford Street
Semi-Volatile Organic Compounds Analysis (SVOC)
Soil Samples

Sample ID	SB-1 (8-12)	SB-3 (0-2)	SB-3 (8-12)	SB-4 (0-2)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil		
EPA Methodology	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg		
Benz(a)anthracene	720	1,300	1,300	2,200	1,000	1,000
Benzo(a)pyrene	1,100	1,300	940	1,800	1,000	1,000
Benzo(b)fluoranthene	1,300	1,500	1,100	2,500	1,000	1,000
Benzo(k)fluoranthene	410	530	510	1,100	800	1,000
Chrysene	810	1,300	1,200	2,200	1,000	1,000
Indeno(1,2,3-cd)pyre	810	780	540	830	500	500

Values Exceed NYSDEC levels
ND Not Detected
BD Below Detection Level

TABLE 3
75 Eckford Street, Brooklyn NY
Metals Analysis
Soil Samples

Sample ID	SB-1 (0-2)	SB-1 (8-12)	SB-2 (0-2)	SB-2 (8-12)	SB-3 (0-2)	SB-3 (8-12)	SB-4 (0-2)	SB-4 (8-12)	SB-5 (0-2)	SB-5 (8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA Methodology	6010-7471	6010-7471	6010-7471	6010-7471	6010-7471	6010-7471	6010-7472	6010-7473	6010-7474	6010-7475		
Date Analyzed**	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014	3/11-12/2014		
Dilution Factor	-	-	-	-	-	-	-	-	-			
Parameter/Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Aluminum	10,900	4,570	11,100	4,900	7,640	8,020	1,900	10,200	2,680	7,940		
Antimony	<4.0	<3.7	<0.39	<15	<3.8	<0.38	<3.3	<4.3	<3.6	<3.9		
Arsenic	4.4	4.5	3.5	17.6	3.0	199	11.7	2.2	4.4	3.8	13	16
Barium	63.2	37.9	73.7	229	90	1080	233	59.7	84.6	87.8	350	350
Beryllium	0.7	0.27	0.61	0.29	0.45	0.53	0.34	0.49	0.23	0.56	7.2	14
Cadmium	<0.4	0.6	<0.39	1.77	<0.38	2.11	4940	4280	1.37	0.46	2.5	2.5
Calcium	1,030	9,440	1,550	9720	7,470	5,490	2.26	<0.43	1,530	1,690		
Chromium	21.9	10.1	21.2	22.2	16.5	49.3	5.65	21.7	12.6	16.7		
Cobalt	8.86	5.64	6.71	4.47	5.84	6.9	7.48	6.63	6.64	6.91		
Copper	29.5	69.5	32.9	197	43.6	462	38.5	21.2	43.4	28.9	50	270
Iron	23,200	24,400	20,900	26,900	17,500	40,600	20,800	23,700	34,900	23,400		
Lead	25.4	142	118	723	129	1560	164	93.5	125	189	63	400
Magnesium	3,200	1,090	3,190	1,770	2,350	1,640	303	2,270	1,260	2,010		
Manganese	430	385	389	205	279	408	164	535	222	274	1,600	2,000
Mercury	2.56	1.04	0.97	9.58	0.63	31.7	0.56	0.27	0.53	1.4	0.18	0.81
Nickel	26.6	12.6	19	13.1	13.8	17.2	14.3	13	12.3	21.2	30	140
Potassium	2,140	927	2040	845	1,240	1,050	504	1,290	669	1,350		
Selenium	<1.6	<1.5	<1.6	<1.7	<1.5	<1.5	<1.3	<1.7	<1.4	<1.6	4	36
Silver	<0.4	<0.37	<0.39	<0.43	<0.38	<0.38	<0.33	<0.43	<0.36	<2.0	2	36
Sodium	248	231	190	435	182	229	267	141	82.8	153		
Thallium	<3.6	<3.4	<0.3.5	<3.8	<3.4	<0.34	<3.0	<0.39	<3.2	<3.5		
Vanadium	36.6	21.1	35.3	13.8	23.2	24.7	9.93	32.5	15.6	32		
Zinc	45.6	70.9	133	677	72.5	834	2360	47.4	424	71	109	2,200

Values Exceed NYSDEC levels
Not Detected
ND Below Detection Level
BDL

TABLE 4
75 Eckford street
Polychlorinated Biphenyls Analysis (PCBs)
Soil Samples

Sample ID	SB-1 (0-2)	SB-1 (8-12)	SB-2 (0-2)	SB-2 (8-12)	SB-3 (0-2)	SB-3 (8-12)	SB-4 (0-2)	SB-4 (8-12)	SB-5 (0-2)	SB-5 (8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	-	-	-	-	-	-	-	-	-		
Parameter/Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
PCB-1016	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1221	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1232	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1242	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1248	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1254	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1260	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1,000
PCB-1262	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1000
PCB-1268	< 75	< 78	< 73	< 94	< 76	< 84	< 69	< 79	< 74	< 75	100	1000

Values Exceed NYSDEC levels
ND Not Detected
BD Below Detection Level

TABLE 5
75 Eckford street
Pesticides
Soil Samples

Sample ID	SB-1 (0-2)	SB-1 (8-12)	SB-2 (0-2)	SB-2 (8-12)	SB-3 (0-2)	SB-3 (8-12)	SB-4 (0-2)	SB-4 (8-12)	SB-5 (0-2)	SB-5 (8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
EPA	8260	8260	8260	8260	8260	8260	8260	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	-	20	-	20	-	20	-	-	-	-		
Parameter/Unit	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg		
4,4' -DDD	< 2.2	< 12	< 2.2	< 14	< 2.3	< 12	< 2.1	< 2.4	< 2.2	< 2.2	3.3	13,000
4,4' -DDE	< 2.2	< 12	< 2.2	< 14	< 3.3	< 12	< 2.1	< 2.4	< 2.2	< 2.2	3.3	8,900
4,4' -DDT	< 2.2	< 12	< 2.2	< 14	< 3.3	< 12	< 2.1	< 2.4	< 2.2	12	3.3	7,900
a-BHC	< 3.6	< 12	< 3.5	< 14	< 3.6	< 12	< 3.3	< 3.8	< 3.5	< 3.6	20	480
Alachlor	< 3.6	< 38	< 3.5	< 45	< 3.6	< 40	< 3.3	< 3.8	< 3.5	< 3.6		
Aldrin	< 1.1	< 12	< 1.1	< 14	< 1.1	< 12	< 1.0	< 1.2	< 1.1	< 1.1	5	97
b-BHC	< 3.6	< 30	< 3.5	< 32	< 3.6	< 33	< 3.3	< 3.8	< 3.5	< 3.6	36	360
Chlordane	< 11	< 120	< 11	< 140	< 11	< 120	< 10	< 12	< 11	< 11		
d-BHC	< 3.6	< 38	< 3.5	< 32	< 3.6	< 40	< 3.3	< 3.8	< 3.5	< 3.6	40	100,000
Dieldrin	< 1.1	< 12	< 1.1	< 14	< 1.3	< 12	< 1.0	< 1.2	< 1.1	< 1.1	5	200
Endosulfan I	< 3.6	< 38	< 3.5	< 45	< 3.6	< 40	< 3.3	< 3.8	< 3.5	< 3.6	2,400	24,000
Endosulfan II	< 7.2	< 75	< 7.0	< 90	< 7.2	< 80	< 6.7	< 7.6	< 7.0	< 7.2	2,400	24,000
Endosulfan sulfa	< 7.2	< 75	< 7.0	< 90	< 7.2	< 80	< 6.7	< 7.6	< 7.0	< 7.2	2,400	24,000
Endrin	< 7.2	< 12	< 7.0	< 14	< 7.2	< 12	< 6.7	< 7.6	< 7.0	< 7.2	14	11,000
Endrin aldehyde	< 7.2	< 75	< 7.0	< 90	< 7.2	< 80	< 6.7	< 7.6	< 7.0	< 7.2		
Endrin ketone	< 7.2	< 75	< 7.0	< 90	< 7.2	< 80	< 6.7	< 7.6	< 7.0	< 9.0		
g-BHC	< 1.1	< 12	< 1.1	< 14	< 1.1	< 12	< 1.0	< 1.2	< 1.1	< 1.1	100	1,300
Heptachlor	< 2.2	< 24	< 2.2	< 28	< 2.3	< 25	< 2.1	< 2.4	< 2.2	< 2.2	42	2,100
Heptachlor epoxi	< 3.6	< 12	< 3.5	< 20	< 3.6	< 12	< 3.3	< 3.8	< 3.5	< 3.6		
Methoxychlor	< 36	< 30	< 35	< 32	< 36	< 33	< 33	< 38	< 35	< 36		
Toxaphene	< 190	< 2000	< 180	< 2300	< 190	< 2100	< 170	< 200	< 180	< 190		

Values Exceed NYSDEC levels
ND Not Detected
BD Below Detection Level

TABLE 5A
75 Eckford street
Pesticides
Soil Samples

Sample ID	SB-5 (8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014		
Matrix	Soil		
EPA Methodology	8260		
Date Analyzed	3/11/2014		
Dilution Factor	20		
Parameter/Units	ug/kg		
4,4' -DDT	12	3.3	7,900

Values Exceed NYSDEC levels
ND Not Detected
BD Below Detection Level

TABLE 6
75 Eckford street
Total Petroleum Hydrocarbon (TPH)
Soil Samples

Sample ID	SB-1 (8-12)	SB-2 (8-12)	SB-3 (8-12)	Track 1 Unrestricted Use Part 375-6.8(a)	Track 2 Restricted Use
Date Collected	3/6/2014	3/6/2014	3/6/2014		
Matrix	Soil	Soil	Soil		
EPA	8260	8260	8260		
Date Analyzed	3/11/2014	3/11/2014	3/11/2014		
Dilution Factor	10	10	10		
Parameter/Units	mg/kg	mg/kg	mg/kg		
Fuel Oil #2	**	**	**		
Fuel Oil #4	< 150	< 190	< 170		
Fuel Oil #6	< 150	< 190	< 170		
Gasoline (Present	<	<	<		
Kerosene	< 150	< 190	< 170		
Lubricating Oil	< 150	< 190	< 170		
Unidentified	5,300	7,000	4,400		

** Petroleum hydrocarbon chromatogram most closely resembles diesel fuel / fuel #2. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Values Exceed NYSDEC levels

ND Not Detected

BDL Below Detection Level

Appendix F

Tabulated Data
Groundwater

TABLE 7
75 Eckford Street
Volatile Organic Compounds Analysis (VOC)
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8260	8260	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	ug/L	ug/L	
	Results	Results	
1,1,1,2-Tetrachloroethane	< 1.0	< 1.0	5
1,1,1-Trichloroethane	< 1.0	< 1.0	5
1,1,2,2-Tetrachloroethane	< 0.50	< 0.50	5
1,1,2-Trichloroethane	< 1.0	< 1.0	1
1,1-Dichloroethane	< 1.0	< 1.0	5
1,1-Dichloroethene	< 1.0	< 1.0	5
1,1-Dichloropropene	< 1.0	< 1.0	5
1,2,3-Trichlorobenzene	< 1.0	< 1.0	
1,2,3-Trichloropropane	< 1.0	< 1.0	0.04
1,2,4-Trichlorobenzene	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	< 1.0	< 1.0	5
1,2-Dibromo-3-chloropropane	< 1.0	< 1.0	0.04
1,2-Dichlorobenzene	< 1.0	< 1.0	4.7
1,2-Dichloroethane	< 1.0	< 1.0	0.6
1,2-Dichloropropane	< 0.60	< 0.60	1
1,3,5-Trimethylbenzene	< 1.0	< 1.0	5
1,3-Dichlorobenzene	< 1.0	< 1.0	5
1,3-Dichloropropane	< 1.0	< 1.0	5
1,4-Dichlorobenzene	< 1.0	< 1.0	5
2,2-Dichloropropane	< 1.0	< 1.0	5
2-Chlorotoluene	< 1.0	< 1.0	5
2-Hexanone	< 1.0	< 1.0	50
2-Isopropyltoluene	< 5.0	< 5.0	5
4-Chlorotoluene	14	22	5
4-Methyl-2-pentanone	< 1.0	< 1.0	50
Acetone	< 5.0	< 5.0	50
Acrylonitrile	< 25	< 25	5
Benzene	< 5.0	< 5.0	1
Bromobenzene	< 0.70	< 0.70	5
Bromochloromethane	< 1.0	< 1.0	5
Bromodichloromethane	< 1.0	< 1.0	50
Bromoform	< 0.50	< 0.50	50
Bromomethane	< 1.0	< 1.0	5
Carbon Disulfide	< 1.0	< 1.0	50
Carbon tetrachloride	< 5.0	< 5.0	5
Chlorobenzene	< 1.0	< 1.0	5
Chloroethane	1.3	< 1.0	5
Chloroform	4.8	< 1.0	7
Chloromethane	< 1.0	< 1.0	5
cis-1,2-Dichloroethene	< 1.0	< 1.0	5
cis-1,3-Dichloropropene	< 1.0	< 1.0	
Dibromochloromethane	< 0.40	< 0.40	50
Dibromoethane	< 0.50	< 0.50	0.0006
Dibromomethane	< 1.0	< 1.0	5
Dichlorodifluoromethane	< 1.0	< 1.0	5
Ethylbenzene	< 1.0	< 1.0	5
Hexachlorobutadiene	< 0.40	< 0.40	0.5
Isopropylbenzene	4.8	6.1	5
m&p-Xylene	< 1.0	< 1.0	
Methyl Ethyl Ketone	< 5.0	< 5.0	50
Methyl t-butyl ether (MTBE)	3.4	< 1.0	
Methylene chloride	< 1.0	< 1.0	5
Naphthalene	< 1.0	< 1.0	10
n-Butylbenzene	6.7	6.8	5
n-Propylbenzene	2	2.2	5
o-Xylene	< 1.0	< 1.0	5
p-Isopropyltoluene	< 1.0	< 1.0	5

TABLE 7
75 Eckford Street
Volatile Organic Compounds Analysis (VOC)
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8260	8260	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	ug/L	ug/L	
	Results	Results	
sec-Butylbenzene	20	29	5
Styrene	< 1.0	< 1.0	5
tert-Butylbenzene	8.6	13	5
Tetrachloroethene	< 1.0	< 1.0	5
Tetrahydrofuran (THF)	< 2.5	< 2.5	50
Toluene	< 1.0	< 1.0	5
Total Xylenes	< 2.0	< 2.0	5
trans-1,2-Dichloroethene	< 1.0	< 1.0	5
trans-1,3-Dichloropropene	< 0.40	< 0.40	
trans-1,4-dichloro-2-butene	< 5.0	< 5.0	5
Trichloroethene	< 1.0	< 1.0	5
Trichlorofluoromethane	< 1.0	< 1.0	5
Trichlorotrifluoroethane	< 1.0	< 1.0	5
Vinyl chloride	< 1.0	< 1.0	2

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 7A
75 Eckford Street
Volatile Organic Compounds Analysis (VOC)
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8260	8260	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	ug/L	ug/L	
	Results	Results	
4-Chlorotoluene	14	22	5
Isopropylbenzene	4.8	6.1	5
n-Butylbenzene	6.7	6.8	5
sec-Butylbenzene	20	29	5
tert-Butylbenzene	8.6	13	5

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 8
75 Eckford Street
Semi-Volatile Organic Compounds Analysis (SVOC)
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8270	8270	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	ug/L	ug/L	
	Results	Results	
1,2,4,5-Tetrachlorobenzene	ND	ND	
1,2,4-Trichlorobenzene	ND	ND	
1,2-Dichlorobenzene	ND	ND	4.7
1,2-Diphenylhydrazine		ND	
1,3-Dichlorobenzene	ND	ND	5
1,4-Dichlorobenzene	ND	ND	5
2,4,5-Trichlorophenol	ND	ND	1
2,4,6-Trichlorophenol	ND	ND	1
2,4-Dichlorophenol	ND	ND	1
2,4-Dimethylphenol	ND	ND	5
2,4-Dinitrophenol	ND	ND	5
2,4-Dinitrotoluene	ND	ND	5
2,6-Dinitrotoluene	ND	ND	5
2-Chloronaphthalene	ND	ND	10
2-Chlorophenol	ND	ND	1
2-Methylnaphthalene	ND	ND	
2-Methylphenol (o-cresol)	ND	ND	5
2-Nitroaniline	ND	ND	5
2-Nitrophenol	ND	ND	5
3&4-Methylphenol (m&p-cresol)	ND	ND	
3,3'-Dichlorobenzidine	ND	ND	5
3-Nitroaniline	ND	ND	5
4,6-Dinitro-2-methylphenol	ND	ND	1
4-Bromophenyl phenyl ether	ND	ND	
4-Chloro-3-methylphenol	ND	ND	5
4-Chloroaniline	ND	ND	5
4-Chlorophenyl phenyl ether	ND	ND	
4-Nitroaniline	ND	ND	5
4-Nitrophenol	ND	ND	1
Acetophenone	ND	ND	
Aniline	ND	ND	5
Anthracene	ND	ND	50
Azobenzene	ND	ND	5
Benzidine	ND	ND	5
Benzoic acid	ND	ND	
Benzyl butyl phthalate	ND	ND	50
Bis(2-chloroethoxy)methane	ND	ND	5
Bis(2-chloroethyl)ether	ND	ND	1
Bis(2-chloroisopropyl)ether	ND	ND	
Carbazole	ND	ND	
Dibenzofuran	ND	ND	5
Diethyl phthalate	ND	ND	50
Dimethylphthalate	ND	ND	50
Di-n-butylphthalate	ND	ND	50
Di-n-octylphthalate	ND	ND	50
Fluoranthene	ND	ND	50
Fluorene	ND	ND	50
Hexachlorobutadiene	ND	ND	0.5
Hexachlorocyclopentadiene	ND	ND	5
Isophorone	ND	ND	50
Naphthalene	ND	ND	10
Nitrobenzene	ND	ND	5
N-Nitrosodimethylamine	ND	ND	
N-Nitrosodi-n-propylamine	ND	ND	
N-Nitrosodiphenylamine	ND	ND	50
Phenol	ND	ND	1
Pyrene	ND	ND	50
Pyridine	ND	ND	50

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 9
75 Eckford Street
Metals Analysis
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	6010-7010-7470	6010-7010-7470	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	mg/L	mg/L	
	Results	Results	
Aluminum	1.01	7.55	0.1
Aluminum (Dissolved)	0.24	0.22	0.1
Antimony	< 0.005	< 0.005	0.003
Antimony (Dissolved)	< 0.005	< 0.005	0.003
Arsenic	0.073	0.082	0.025
Arsenic (Dissolved)	0.039	< 0.004	0.025
Barium	0.387	0.863	1
Barium (Dissolved)	0.428	0.191	1
Beryllium	< 0.001	< 0.001	0.003
Beryllium (Dissolved)	< 0.001	< 0.001	0.003
Cadmium	< 0.001	< 0.001	0.005
Cadmium (Dissolved)	< 0.001	< 0.001	0.005
Calcium	115	270	
Calcium (Dissolved)	196	104	
Chromium	< 0.001	0.015	0.05
Chromium (Dissolved)	< 0.001	< 0.001	0.05
Cobalt	< 0.002	0.009	
Cobalt (Dissolved)	0.004	0.003	
Copper	0.015	0.123	0.2
Copper (Dissolved)	0.005	< 0.005	0.2
Iron	27.4	44.9	0.3
Iron (Dissolved)	7.66	13.2	0.3
Lead	0.086	0.847	0.025
Lead (Dissolved)	0.01	0.013	0.025
Magnesium	14.4	35.6	35
Magnesium (Dissolved)	35.5	13.9	35
Manganese	1.15	0.931	0.3
Manganese (Dissolved)	0.614	2.05	0.3
Mercury	< 0.0002	0.0045	0.0007
Mercury (Dissolved)	< 0.0002	< 0.0002	0.0007
Nickel	0.002	0.014	0.1
Nickel (Dissolved)	0.003	0.007	0.1
Potassium	28.7	56.7	
Potassium (Dissolved)	50.7	38.2	
Selenium	< 0.010	< 0.010	0.01
Selenium (Dissolved)	< 0.011	< 0.011	0.01
Silver	< 0.001	< 0.001	0.05
Silver (Dissolved)	< 0.001	< 0.001	0.05
Sodium	157	137	20
Sodium (Dissolved)	132	60.5	20
Thallium	< 0.002	< 0.002	0.0005
Thallium (Dissolved)	< 0.002	< 0.002	0.0005
Vanadium	< 0.002	0.019	
Vanadium (Dissolved)	< 0.002	< 0.002	
Zinc	0.047	0.301	5
Zinc (Dissolved)	0.012	0.023	5

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 9A
75 Eckford Street
Metals Analysis
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	6010-7010-7470	6010-7010-7470	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	mg/L	mg/L	
	Results	Results	
Aluminum	1.01	7.55	0.1
Aluminum (Dissolved)	0.24	0.22	0.1
Arsenic	0.073	0.082	0.025
Arsenic (Dissolved)	0.039	< 0.004	0.025
Barium	0.387	0.863	1
Barium (Dissolved)	0.428	0.191	1
Iron	27.4	44.9	0.3
Iron (Dissolved)	7.66	13.2	0.3
Lead	0.086	0.847	0.025
Magnesium	14.4	35.6	35
Magnesium (Dissolved)	35.5	13.9	35
Manganese	1.15	0.931	0.3
Manganese (Dissolved)	0.614	2.05	0.3
Mercury	< 0.0002	0.0045	0.0007
Sodium	157	137	20
Sodium (Dissolved)	132	60.5	20

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 10
75 Eckford Street
Polychlorinated Biphenyls Analysis (PCBs)
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8082	8082	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	mg/L	mg/L	
	Results	Results	
PCB-1016	< 0.050	< 0.050	0.09
PCB-1221	< 0.050	< 0.050	0.09
PCB-1232	< 0.050	< 0.050	0.09
PCB-1242	< 0.050	< 0.050	0.09
PCB-1248	< 0.050	< 0.050	0.09
PCB-1254	< 0.050	< 0.050	0.09
PCB-1260	< 0.050	0.3	0.09
PCB-1262	< 0.050	< 0.050	0.09
PCB-1268	< 0.050	< 0.050	0.09

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 10A

Polychlorinated Biphenyls Analysis (PCBs)
Groundwater Samples

Sample ID	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	
Matrix	GW	
EPA Methodology	8082	
Date Analyzed	3/11/2014	
Parameter/Units	mg/L	
	Results	
PCB-1260	0.3	0.09

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

TABLE 11
75 Eckford Street
Pesticides
Groundwater Samples

Sample ID	MW-1	MW-2	TAGM /TOGS GW
Date Collected	3/6/2014	3/6/2014	
Matrix	GW	GW	
EPA Methodology	8081/8082	8081/8082	
Date Analyzed	3/11/2014	3/11/2014	
Parameter/Units	ug/L	ug/L	
	Results	Results	
4,4' -DDD	< 0.040	< 2.0	0.3
4,4' -DDE	< 0.040	< 2.0	0.2
4,4' -DDT	< 0.040	< 2.0	0.2
a-BHC	< 0.020	< 1.0	0.01
Alachlor	< 0.040	< 2.0	0.09
Aldrin	< 0.020	< 1.0	ND
b-BHC	< 0.020	< 1.0	0.04
Chlordane	< 0.20	< 10	0.05
d-BHC	< 0.020	< 1.0	0.04
Dieldrin	< 0.040	< 2.0	0.004
Endosulfan I	< 0.020	< 1.0	
Endosulfan II	< 0.040	< 2.0	
Endosulfan sulfate	< 0.040	< 2.0	
Endrin	< 0.040	< 2.0	ND
Endrin aldehyde	< 0.040	< 2.0	5
Endrin ketone	< 0.040	< 2.0	5
g-BHC	< 0.020	< 1.0	
Heptachlor	< 0.020	< 1.0	0.04
Heptachlor epoxide	< 0.020	< 1.0	0.03
Methoxychlor	< 0.080	< 4.0	35
Toxaphene	< 0.40	< 20	0.06

Values Exceed NYSDEC levels
ND Not Detected
BDL Below Detection Level

Appendix G

Tabulated Data
Soil Vapor

TABLE 12
75 Eckford Street
Volatile Organic Compounds (VOC) - Air Analysis
Soil Vapor Samples

Sample ID	SVP-1	SVP-2	SVP-3	Indoor Air	Ambient	NYSDOH Guidance Values
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	
Matrix	Air	Air	Air	Air	Air	
EPA Methodology	TO-15	TO-15	TO-15	TO-15	TO-15	
Date Analyzed**	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	
Parameter/Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	
	Results	Results	Results	Results	Results	
1,1,1,2-Tetrachloroethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,1,1-Trichloroethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,1,2,2-Tetrachloroethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,1,2-Trichloroethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,1-Dichloroethane	< 1.00	< 1.00	< 5.02	< 1.00	< 1.00	-
1,1-Dichloroethene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
1,2,4-Trichlorobenzene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,2,4-Trimethylbenzene	7.27	4.08	8.84	5.85	8.7	-
1,2-Dibromoethane(EDB)	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,2-Dichlorobenzene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,2-Dichloroethane	< 1.00	< 1.00	< 5.02	< 1.00	< 1.00	-
1,2-dichloropropane	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
1,2-Dichlorotetrafluoroethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,3,5-Trimethylbenzene	1.67	1.92	< 5.01	1.57	1.96	-
1,3-Butadiene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,3-Dichlorobenzene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,4-Dichlorobenzene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
1,4-Dioxane	< 1.00	< 1.00	< 5.01	< 1.00	< 1.00	-
2-Hexanone(MBK)	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
4-Ethyltoluene	2.06	< 1.00	< 5.01	1.23	2.41	-
4-Isopropyltoluene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
4-Methyl-2-pentanone(MIBK)	1.43	< 1.00	< 4.99	< 1.00	1.19	-
Acetone	9.14	19.8	167	12.8	4.7	-
Acrylonitrile	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
Benzene	1.72	4.28	5.27	4.5	1.44	-
Benzyl chloride	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Bromodichloromethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Bromoform	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Bromomethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Carbon Disulfide	11	2.3	9.65	< 1.00	< 1.00	-
Carbon Tetrachloride	0.377	0.377	< 1.24	0.943	0.503	-
Chlorobenzene	< 1.00	< 1.00	< 5.01	< 1.00	< 1.00	-
Chloroethane	< 1.00	< 1.00	104	< 1.00	< 1.00	-
Chloroform	< 1.00	< 1.00	< 4.98	< 1.00	< 1.00	-
Chloromethane	< 1.00	< 1.00	< 4.99	1.73	< 1.00	-
Cis-1,2-Dichloroethene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
cis-1,3-Dichloropropene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
Cyclohexane	< 1.00	4.06	184	2.44	< 1.00	-
Dibromochloromethane	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Dichlorodifluoromethane	2.03	2.03	30.1	3.9	2.03	-
Ethanol	17.8	12.3	< 5.01	25.6	8.49	-
Ethyl acetate	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Ethylbenzene	4.9	3.69	< 4.99	4.38	3.78	-
Heptane	1.39	3.36	11.7	4.18	1.31	-
Hexachlorobutadiene	< 1.00	< 1.00	< 5.00	< 1.00	< 1.00	-
Hexane	1.66	4.3	56.4	4.51	1.23	-

Values Exceed NYSDEC Levels
ND Not Detected
BDL Below Detection Level

TABLE 12 Continued
75 Eckford Street
Volatile Organic Compounds (VOC) - Air Analysis
Soil Vapor Samples

Sample ID	SVP-1	SVP-2	SVP-3	Indoor Air	Ambient	NYSDOH Guidance Values
Date Collected	3/6/2014	3/6/2014	3/6/2014	3/6/2014	3/6/2014	
Matrix	Air	Air	Air	Air	Air	
EPA Methodology	TO-15	TO-15	TO-15	TO-15	TO-15	
Date Analyzed**	3/11/2014	3/11/2014	3/11/2014	3/11/2014	3/11/2014	
Parameter/Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	
	Results	Results	Results	Results	Results	
Isopropylalcohol	< 1.00	2.14	< 5.01	2.63	1.03	-
Isopropylbenzene	1.23	6.53	< 5.01	< 1.00	4.81	-
m,p-Xylene	18.2	11.4	13	15.8	13.4	-
Methyl Ethyl Ketone	2.98	1.24	15.8	1.71	1.06	-
Methyl tert-butyl ether(MTBE)	< 1.00	< 1.00	< 5.01	< 1.00	< 1.00	-
Methylene Chloride	2.26	1.08	< 5.00	2.36	1.11	60
n-Butylbenzene	1.97	18.4	< 5.00	< 1.00	11.5	-
o-Xylene	7.2	4.77	5.86	6.12	5.51	-
Propylene	1.43	3.23	425	3.44	1.31	-
sec-Butylbenzene	4.11	52.9	25.5	< 1.00	28.2	-
Styrene	1.45	< 1.00	< 4.98	< 1.00	1.06	-
Tetrachloroethene	92.2	1.08	< 1.25	2.3	0.339	100
Tetrahydrofuran	< 1.00	1.12	< 5.01	< 1.00	< 1.00	-
Toluene	8.92	18	11.7	26	7.42	-
Trans-1,2-Dichloroethene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
trans-1,3-Dichloropropene	< 1.00	< 1.00	< 4.99	< 1.00	< 1.00	-
Trichloroethene	66	1.34	6.18	0.268	< 0.25	5
Trichlorofluoromethane	1.01	< 1.00	< 5.00	2.08	1.07	-
Trichlorotrifluoroethane	1.38	1.3	< 5.00	2.83	1.46	-
Vinyl Chloride	< 0.25	< 0.25	1.66	< 0.25	< 0.25	-

Values Exceed NYSDEC Levels
ND Not Detected
BDL Below Detection Level

TABLE 12A
75 Eckford Street
Volatile Organic Compounds (VOC) - Air Analysis
Soil Vapor Samples

Sample ID	SVP-1	SVP-3	NYSDOH Guidance Values
Date Collected	3/6/2014	3/6/2014	
Matrix	Air	Air	
EPA Methodology	TO-15	TO-15	
Date Analyzed**	3/11/2014	3/11/2014	
Parameter/Units	ug/m3	ug/m3	
	Results	Results	
Trichloroethene	66	6.18	5

Values Exceed NYSDEC Levels
Not Detected
Below Detection Level

ND
BDL

Appendix H

Laboratory Data

PHOENIX
Environmental Laboratories, Inc.

Friday, March 21, 2014

Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Project ID: 126-3
Sample ID#s: BG17199 - BG17214

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

NY # 11301

SDG Comments

March 21, 2014

SDG I.D.: GBG17199

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

BG17205 - The client prepared low level vial had too much soil. Phoenix prepared sample per method 5035.

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	9:10
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17199

Project ID: 126-3
Client ID: SB1 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	10900	61	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 4.0	4.0	mg/Kg	03/11/14	EK	SW6010	
Arsenic	4.4	0.8	mg/Kg	03/11/14	EK	SW6010	
Barium	63.2	0.40	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.70	0.32	mg/Kg	03/11/14	EK	SW6010	
Calcium	1030	6.1	mg/Kg	03/11/14	EK	SW6010	
Cadmium	< 0.40	0.40	mg/Kg	03/11/14	EK	SW6010	
Chromium	21.9	0.40	mg/Kg	03/11/14	EK	SW6010	
Cobalt	8.86	0.40	mg/Kg	03/11/14	EK	SW6010	
Copper	29.5	0.40	mg/kg	03/11/14	EK	SW6010	B
Iron	23200	61	mg/Kg	03/12/14	LK	SW6010	
Lead	25.4	0.40	mg/Kg	03/11/14	EK	SW6010	
Magnesium	3200	6.1	mg/Kg	03/11/14	LK	SW6010	
Manganese	430	4.0	mg/Kg	03/12/14	LK	SW6010	
Mercury	2.56	0.07	mg/Kg	03/11/14	RS	SW-7471	
Nickel	26.6	0.40	mg/Kg	03/11/14	EK	SW6010	
Potassium	2140	6.1	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.6	1.6	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.40	0.40	mg/Kg	03/11/14	EK	SW6010	
Sodium	248	6.1	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.6	3.6	mg/Kg	03/11/14	EK	SW6010	
Vanadium	36.3	0.40	mg/Kg	03/11/14	EK	SW6010	
Zinc	45.6	0.40	mg/Kg	03/11/14	EK	SW6010	
Percent Solid	86		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB1 (0-2)

Phoenix I.D.: BG17199

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	73		%	03/11/14	AW	30 - 150 %	
% TCMX	75		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	11	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	36	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	190	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	93		%	03/11/14	MH	30 - 150 %	
% TCMX	77		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB1 (0-2)

Phoenix I.D.: BG17199

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	28	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	34	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	3.4	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	34	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB1 (0-2)

Phoenix I.D.: BG17199

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	6.6	5.6	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	97		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	104		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	102		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB1 (0-2)

Phoenix I.D.: BG17199

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	570	270	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	460	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	550	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	730	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	460	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	570	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	590	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	1000	270	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	360	270	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	700	270	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	850	270	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	73		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB1 (0-2)

Phoenix I.D.: BG17199

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	68		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	71		%	03/11/14	DD	30 - 130 %
% Phenol-d5	73		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	73		%	03/11/14	DD	30 - 130 %

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

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	9:30
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17200

Project ID: 126-3
Client ID: SB1 (8-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	4570	56	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	03/11/14	EK	SW6010	
Arsenic	4.5	0.7	mg/Kg	03/11/14	EK	SW6010	
Barium	37.9	0.37	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.27	0.25	mg/Kg	03/11/14	EK	SW6010	
Calcium	9440	5.6	mg/Kg	03/11/14	EK	SW6010	
Cadmium	0.60	0.37	mg/Kg	03/11/14	EK	SW6010	
Chromium	10.1	0.37	mg/Kg	03/11/14	EK	SW6010	
Cobalt	5.64	0.37	mg/Kg	03/11/14	EK	SW6010	
Copper	69.5	0.37	mg/kg	03/11/14	EK	SW6010	B
Iron	24400	56	mg/Kg	03/12/14	LK	SW6010	
Lead	142	0.37	mg/Kg	03/11/14	EK	SW6010	
Magnesium	1090	5.6	mg/Kg	03/11/14	LK	SW6010	
Manganese	385	3.7	mg/Kg	03/12/14	LK	SW6010	
Mercury	1.04	0.08	mg/Kg	03/11/14	RS	SW-7471	
Nickel	12.6	0.37	mg/Kg	03/11/14	EK	SW6010	
Potassium	927	5.6	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.5	1.5	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.37	0.37	mg/Kg	03/11/14	EK	SW6010	
Sodium	231	5.6	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	03/11/14	EK	SW6010	
Vanadium	21.1	0.37	mg/Kg	03/11/14	EK	SW6010	
Zinc	70.9	0.37	mg/Kg	03/11/14	EK	SW6010	
Percent Solid	85		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB1 (8-12)

Phoenix I.D.: BG17200

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1221	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1232	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1242	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1248	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1254	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1260	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1262	ND	78	ug/Kg	03/12/14	AW	SW 8082	
PCB-1268	ND	78	ug/Kg	03/12/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	66		%	03/12/14	AW	30 - 150 %	
% TCMX	39		%	03/12/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	24	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDE	ND	24	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDT	ND	24	ug/Kg	03/12/14	MH	SW8081	
a-BHC	ND	38	ug/Kg	03/12/14	MH	SW8081	
Alachlor	ND	38	ug/Kg	03/12/14	MH	SW8081	1
Aldrin	ND	12	ug/Kg	03/12/14	MH	SW8081	
b-BHC	ND	38	ug/Kg	03/12/14	MH	SW8081	
Chlordane	ND	120	ug/Kg	03/12/14	MH	SW8081	
d-BHC	ND	38	ug/Kg	03/12/14	MH	SW8081	
Dieldrin	ND	12	ug/Kg	03/12/14	MH	SW8081	
Endosulfan I	ND	38	ug/Kg	03/12/14	MH	SW8081	
Endosulfan II	ND	75	ug/Kg	03/12/14	MH	SW8081	
Endosulfan sulfate	ND	75	ug/Kg	03/12/14	MH	SW8081	
Endrin	ND	75	ug/Kg	03/12/14	MH	SW8081	
Endrin aldehyde	ND	75	ug/Kg	03/12/14	MH	SW8081	
Endrin ketone	ND	75	ug/Kg	03/12/14	MH	SW8081	
g-BHC	ND	12	ug/Kg	03/12/14	MH	SW8081	
Heptachlor	ND	24	ug/Kg	03/12/14	MH	SW8081	
Heptachlor epoxide	ND	38	ug/Kg	03/12/14	MH	SW8081	
Methoxychlor	ND	380	ug/Kg	03/12/14	MH	SW8081	
Toxaphene	ND	2000	ug/Kg	03/12/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/12/14	MH	30 - 150 %	
% TCMX	Diluted Out		%	03/12/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	920	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB1 (8-12)

Phoenix I.D.: BG17200

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	7700	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	4500	1500	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	7700	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	9200	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	920	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	9200	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	3100	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	4900	1500	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB1 (8-12)

Phoenix I.D.: BG17200

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	9000	1500	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	2100	1500	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	3100	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	3100	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	1500	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	151		%	03/11/14	JLI	70 - 130 %	3
% Dibromofluoromethane	96		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	98		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	3900	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	6200	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	2700	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	6200	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	3900	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	2700	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	6200	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	11000	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	3900	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	2700	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	2700	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB1 (8-12)

Phoenix I.D.: BG17200

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	6200	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	11000	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	11000	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	4700	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	11000	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	2700	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	5800	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	ND	2700	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	3900	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	*Diluted Out		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB1 (8-12)

Phoenix I.D.: BG17200

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	03/11/14	DD	30 - 130 %

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.
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

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.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of non-target compounds.
**Surrogate recoveries were outside control limits for volatiles due to matrix interference.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	11:15
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17201

Project ID: 126-3
Client ID: SB3 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	7640	57	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.8	3.8	mg/Kg	03/11/14	EK	SW6010	
Arsenic	3.0	0.8	mg/Kg	03/11/14	EK	SW6010	
Barium	90.0	0.38	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.45	0.30	mg/Kg	03/11/14	EK	SW6010	
Calcium	7470	5.7	mg/Kg	03/11/14	EK	SW6010	
Cadmium	< 0.38	0.38	mg/Kg	03/11/14	EK	SW6010	
Chromium	16.5	0.38	mg/Kg	03/11/14	EK	SW6010	
Cobalt	5.84	0.38	mg/Kg	03/11/14	EK	SW6010	
Copper	43.6	0.38	mg/kg	03/11/14	EK	SW6010	B
Iron	17500	57	mg/Kg	03/12/14	LK	SW6010	
Lead	129	0.38	mg/Kg	03/11/14	EK	SW6010	
Magnesium	2350	5.7	mg/Kg	03/11/14	LK	SW6010	
Manganese	279	3.8	mg/Kg	03/12/14	LK	SW6010	
Mercury	0.63	0.09	mg/Kg	03/11/14	RS	SW-7471	
Nickel	13.8	0.38	mg/Kg	03/11/14	EK	SW6010	
Potassium	1240	5.7	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.5	1.5	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.38	0.38	mg/Kg	03/11/14	EK	SW6010	
Sodium	182	5.7	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	03/11/14	EK	SW6010	
Vanadium	23.2	0.38	mg/Kg	03/11/14	EK	SW6010	
Zinc	72.5	0.38	mg/Kg	03/11/14	EK	SW6010	
Percent Solid	86		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB3 (0-2)

Phoenix I.D.: BG17201

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	76	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	76	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	03/11/14	AW	30 - 150 %	
% TCMX	82		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.3	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	11	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.3	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.3	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	36	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	190	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	Interference		%	03/11/14	MH	30 - 150 %	
% TCMX	93		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB3 (0-2)

Phoenix I.D.: BG17201

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	32	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	32	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	38	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	3.8	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	38	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB3 (0-2)

Phoenix I.D.: BG17201

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	13	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	6.4	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	93		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	97		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	100		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB3 (0-2)

Phoenix I.D.: BG17201

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	620	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	400	270	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	1300	270	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	460	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	1300	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	1500	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	980	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	530	270	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	580	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	1300	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	2400	270	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	780	270	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	390	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	390	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	390	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	390	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	2100	270	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	2200	270	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	390	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	68		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	75		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB3 (0-2)

Phoenix I.D.: BG17201

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	61		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	67		%	03/11/14	DD	30 - 130 %
% Phenol-d5	66		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	67		%	03/11/14	DD	30 - 130 %

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

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.

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	11:35
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17202

Project ID: 126-3
Client ID: SB3 (8-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	8020	57	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.8	3.8	mg/Kg	03/11/14	EK	SW6010	
Arsenic	199	7.6	mg/Kg	03/12/14	LK	SW6010	
Barium	1080	0.38	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.53	0.31	mg/Kg	03/11/14	EK	SW6010	
Calcium	5490	5.7	mg/Kg	03/11/14	EK	SW6010	
Cadmium	2.11	0.38	mg/Kg	03/11/14	EK	SW6010	
Chromium	49.3	0.38	mg/Kg	03/11/14	EK	SW6010	
Cobalt	6.90	0.38	mg/Kg	03/11/14	EK	SW6010	
Copper	462	3.8	mg/kg	03/12/14	LK	SW6010	B
Iron	40600	57	mg/Kg	03/12/14	LK	SW6010	
Lead	1560	38	mg/Kg	03/12/14	LK	SW6010	
Magnesium	1640	5.7	mg/Kg	03/11/14	LK	SW6010	
Manganese	408	3.8	mg/Kg	03/12/14	LK	SW6010	
Mercury	31.7	0.84	mg/Kg	03/11/14	RS	SW-7471	
Nickel	17.2	0.38	mg/Kg	03/11/14	EK	SW6010	
Potassium	1050	5.7	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.5	1.5	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.38	0.38	mg/Kg	03/11/14	EK	SW6010	
Sodium	229	5.7	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	03/11/14	EK	SW6010	
Vanadium	24.7	0.38	mg/Kg	03/11/14	EK	SW6010	
Zinc	834	3.8	mg/Kg	03/12/14	LK	SW6010	
Percent Solid	79		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB3 (8-12)

Phoenix I.D.: BG17202

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1221	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1232	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1242	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1248	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1254	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1260	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1262	ND	84	ug/Kg	03/12/14	AW	SW 8082	
PCB-1268	ND	84	ug/Kg	03/12/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	60		%	03/12/14	AW	30 - 150 %	
% TCMX	38		%	03/12/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	25	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDE	ND	25	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDT	ND	25	ug/Kg	03/12/14	MH	SW8081	
a-BHC	ND	40	ug/Kg	03/12/14	MH	SW8081	
Alachlor	ND	40	ug/Kg	03/12/14	MH	SW8081	1
Aldrin	ND	12	ug/Kg	03/12/14	MH	SW8081	
b-BHC	ND	40	ug/Kg	03/12/14	MH	SW8081	
Chlordane	ND	120	ug/Kg	03/12/14	MH	SW8081	
d-BHC	ND	40	ug/Kg	03/12/14	MH	SW8081	
Dieldrin	ND	12	ug/Kg	03/12/14	MH	SW8081	
Endosulfan I	ND	40	ug/Kg	03/12/14	MH	SW8081	
Endosulfan II	ND	80	ug/Kg	03/12/14	MH	SW8081	
Endosulfan sulfate	ND	80	ug/Kg	03/12/14	MH	SW8081	
Endrin	ND	80	ug/Kg	03/12/14	MH	SW8081	
Endrin aldehyde	ND	80	ug/Kg	03/12/14	MH	SW8081	
Endrin ketone	ND	80	ug/Kg	03/12/14	MH	SW8081	
g-BHC	ND	12	ug/Kg	03/12/14	MH	SW8081	
Heptachlor	ND	25	ug/Kg	03/12/14	MH	SW8081	
Heptachlor epoxide	ND	40	ug/Kg	03/12/14	MH	SW8081	
Methoxychlor	ND	400	ug/Kg	03/12/14	MH	SW8081	
Toxaphene	ND	2100	ug/Kg	03/12/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/12/14	MH	30 - 150 %	
% TCMX	Diluted Out		%	03/12/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	190	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB3 (8-12)

Phoenix I.D.: BG17202

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	1600	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	380	320	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	1600	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	1900	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	190	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	1900	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	650	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB3 (8-12)

Phoenix I.D.: BG17202

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	2000	1600	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	650	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	650	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	123		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	96		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	102		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	4200	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	6700	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	2900	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	6700	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	4200	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	2900	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	6700	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	12000	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	4200	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	2900	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	2900	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB3 (8-12)

Phoenix I.D.: BG17202

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	6700	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	12000	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	12000	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	5000	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	12000	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	2900	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	6300	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	4000	2900	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	3600	2900	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	2900	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	3700	2900	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	4200	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	*Diluted Out		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB3 (8-12)

Phoenix I.D.: BG17202

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	03/11/14	DD	30 - 130 %

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

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.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	12:00
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17203

Project ID: 126-3
Client ID: SB2 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	11100	59	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	03/11/14	EK	SW6010	
Arsenic	3.5	0.8	mg/Kg	03/11/14	EK	SW6010	
Barium	73.7	0.39	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.61	0.31	mg/Kg	03/11/14	EK	SW6010	
Calcium	1550	5.9	mg/Kg	03/11/14	EK	SW6010	
Cadmium	< 0.39	0.39	mg/Kg	03/11/14	EK	SW6010	
Chromium	21.2	0.39	mg/Kg	03/11/14	EK	SW6010	
Cobalt	6.71	0.39	mg/Kg	03/11/14	EK	SW6010	
Copper	32.9	0.39	mg/kg	03/11/14	EK	SW6010	B
Iron	20900	59	mg/Kg	03/12/14	LK	SW6010	
Lead	118	0.39	mg/Kg	03/11/14	EK	SW6010	
Magnesium	3190	5.9	mg/Kg	03/11/14	LK	SW6010	
Manganese	389	3.9	mg/Kg	03/12/14	LK	SW6010	
Mercury	0.97	0.07	mg/Kg	03/11/14	RS	SW-7471	
Nickel	19.0	0.39	mg/Kg	03/11/14	EK	SW6010	
Potassium	2040	5.9	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.6	1.6	mg/Kg	03/11/14	LK	SW6010	
Silver	< 0.39	0.39	mg/Kg	03/11/14	EK	SW6010	
Sodium	190	5.9	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.5	3.5	mg/Kg	03/11/14	EK	SW6010	
Vanadium	35.3	0.39	mg/Kg	03/11/14	EK	SW6010	
Zinc	133	0.39	mg/Kg	03/11/14	EK	SW6010	
Percent Solid	90		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB2 (0-2)

Phoenix I.D.: BG17203

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	73	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	73	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	78		%	03/11/14	AW	30 - 150 %	
% TCMX	85		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.5	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	11	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	35	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	180	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	88		%	03/11/14	MH	30 - 150 %	
% TCMX	80		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB2 (0-2)

Phoenix I.D.: BG17203

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	21	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	21	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	25	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	2.5	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	25	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	5.1	4.2	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB2 (0-2)

Phoenix I.D.: BG17203

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	620	290	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	4.2	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	104		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	105		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	102		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB2 (0-2)

Phoenix I.D.: BG17203

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	600	260	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	440	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	560	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	650	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	410	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	270	260	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	550	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	580	260	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	1200	260	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	340	260	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	1100	260	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	990	260	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	66		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	69		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB2 (0-2)

Phoenix I.D.: BG17203

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	65		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	67		%	03/11/14	DD	30 - 130 %
% Phenol-d5	69		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	63		%	03/11/14	DD	30 - 130 %

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

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	12:20
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17204

Project ID: 126-3
Client ID: SB2 (8-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	4900	64	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 15	15	mg/Kg	03/11/14	LK	SW6010	
Arsenic	17.6	0.9	mg/Kg	03/11/14	EK	SW6010	
Barium	229	0.43	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.29	0.25	mg/Kg	03/11/14	EK	SW6010	
Calcium	9720	6.4	mg/Kg	03/11/14	EK	SW6010	
Cadmium	1.77	0.43	mg/Kg	03/11/14	EK	SW6010	
Chromium	22.2	0.43	mg/Kg	03/11/14	EK	SW6010	
Cobalt	4.47	0.43	mg/Kg	03/11/14	EK	SW6010	
Copper	197	4.3	mg/kg	03/12/14	LK	SW6010	B
Iron	26900	64	mg/Kg	03/12/14	LK	SW6010	
Lead	723	4.3	mg/Kg	03/12/14	LK	SW6010	
Magnesium	1770	6.4	mg/Kg	03/11/14	LK	SW6010	
Manganese	205	4.3	mg/Kg	03/12/14	LK	SW6010	
Mercury	9.58	1.0	mg/Kg	03/11/14	RS	SW-7471	
Nickel	13.1	0.43	mg/Kg	03/11/14	EK	SW6010	
Potassium	845	6.4	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.7	1.7	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.43	0.43	mg/Kg	03/11/14	EK	SW6010	
Sodium	435	6.4	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.8	3.8	mg/Kg	03/11/14	EK	SW6010	
Vanadium	13.8	0.43	mg/Kg	03/11/14	EK	SW6010	
Zinc	677	4.3	mg/Kg	03/12/14	LK	SW6010	
Percent Solid	69		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB2 (8-12)

Phoenix I.D.: BG17204

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1221	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1232	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1242	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1248	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1254	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1260	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1262	ND	94	ug/Kg	03/12/14	AW	SW 8082	
PCB-1268	ND	94	ug/Kg	03/12/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	41		%	03/12/14	AW	30 - 150 %	
% TCMX	28		%	03/12/14	AW	30 - 150 %	3
Pesticides							
4,4' -DDD	ND	28	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDE	ND	28	ug/Kg	03/12/14	MH	SW8081	
4,4' -DDT	ND	28	ug/Kg	03/12/14	MH	SW8081	
a-BHC	ND	45	ug/Kg	03/12/14	MH	SW8081	
Alachlor	ND	45	ug/Kg	03/12/14	MH	SW8081	1
Aldrin	ND	14	ug/Kg	03/12/14	MH	SW8081	
b-BHC	ND	45	ug/Kg	03/12/14	MH	SW8081	
Chlordane	ND	140	ug/Kg	03/12/14	MH	SW8081	
d-BHC	ND	45	ug/Kg	03/12/14	MH	SW8081	
Dieldrin	ND	14	ug/Kg	03/12/14	MH	SW8081	
Endosulfan I	ND	45	ug/Kg	03/12/14	MH	SW8081	
Endosulfan II	ND	90	ug/Kg	03/12/14	MH	SW8081	
Endosulfan sulfate	ND	90	ug/Kg	03/12/14	MH	SW8081	
Endrin	ND	90	ug/Kg	03/12/14	MH	SW8081	
Endrin aldehyde	ND	90	ug/Kg	03/12/14	MH	SW8081	
Endrin ketone	ND	90	ug/Kg	03/12/14	MH	SW8081	
g-BHC	ND	14	ug/Kg	03/12/14	MH	SW8081	
Heptachlor	ND	28	ug/Kg	03/12/14	MH	SW8081	
Heptachlor epoxide	ND	45	ug/Kg	03/12/14	MH	SW8081	
Methoxychlor	ND	450	ug/Kg	03/12/14	MH	SW8081	
Toxaphene	ND	2300	ug/Kg	03/12/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/12/14	MH	30 - 150 %	
% TCMX	Diluted Out		%	03/12/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,1,1-Trichloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	1100	ug/Kg	03/11/14	J/P	SW8260	
1,1,2-Trichloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,1-Dichloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,1-Dichloroethene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	

Project ID: 126-3
Client ID: SB2 (8-12)

Phoenix I.D.: BG17204

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2,3-Trichlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2,3-Trichloropropane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2,4-Trichlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2,4-Trimethylbenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2-Dibromoethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2-Dichlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2-Dichloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,2-Dichloropropane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,3,5-Trimethylbenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,3-Dichlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,3-Dichloropropane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
1,4-Dichlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
2,2-Dichloropropane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
2-Chlorotoluene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
2-Hexanone	ND	9200	ug/Kg	03/11/14	J/P	SW8260	
2-Isopropyltoluene	27000	1800	ug/Kg	03/11/14	J/P	SW8260	1
4-Chlorotoluene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
4-Methyl-2-pentanone	ND	9200	ug/Kg	03/11/14	J/P	SW8260	
Acetone	ND	11000	ug/Kg	03/11/14	J/P	SW8260	
Acrylonitrile	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Benzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Bromobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Bromochloromethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Bromodichloromethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Bromoform	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Bromomethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Carbon Disulfide	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Carbon tetrachloride	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Chlorobenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Chloroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Chloroform	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Chloromethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
cis-1,2-Dichloroethene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
cis-1,3-Dichloropropene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Dibromochloromethane	ND	1100	ug/Kg	03/11/14	J/P	SW8260	
Dibromomethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Dichlorodifluoromethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Ethylbenzene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Hexachlorobutadiene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Isopropylbenzene	3000	1800	ug/Kg	03/11/14	J/P	SW8260	
m&p-Xylene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Methyl Ethyl Ketone	ND	11000	ug/Kg	03/11/14	J/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	3700	ug/Kg	03/11/14	J/P	SW8260	
Methylene chloride	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Naphthalene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
n-Butylbenzene	8000	1800	ug/Kg	03/11/14	J/P	SW8260	
n-Propylbenzene	3100	1800	ug/Kg	03/11/14	J/P	SW8260	

Project ID: 126-3
Client ID: SB2 (8-12)

Phoenix I.D.: BG17204

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
p-Isopropyltoluene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
sec-Butylbenzene	50000	1800	ug/Kg	03/11/14	J/P	SW8260	
Styrene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
tert-Butylbenzene	15000	1800	ug/Kg	03/11/14	J/P	SW8260	
Tetrachloroethene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Tetrahydrofuran (THF)	ND	3700	ug/Kg	03/11/14	J/P	SW8260	1
Toluene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Total Xylenes	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
trans-1,2-Dichloroethene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
trans-1,3-Dichloropropene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
trans-1,4-dichloro-2-butene	ND	3700	ug/Kg	03/11/14	J/P	SW8260	
Trichloroethene	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Trichlorofluoromethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Trichlorotrifluoroethane	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
Vinyl chloride	ND	1800	ug/Kg	03/11/14	J/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	03/11/14	J/P	70 - 130 %	
% Bromofluorobenzene	169		%	03/11/14	J/P	70 - 130 %	3
% Dibromofluoromethane	96		%	03/11/14	J/P	70 - 130 %	
% Toluene-d8	102		%	03/11/14	J/P	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	4800	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	7700	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	3400	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	7700	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	4800	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	3400	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	7700	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	14000	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	4800	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	3400	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	3400	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB2 (8-12)

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	7700	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	14000	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	14000	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	5800	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	14000	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	3400	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	7200	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	ND	3400	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	4800	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	*Diluted Out		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB2 (8-12)

Phoenix I.D.: BG17204

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	03/11/14	DD	30 - 130 %

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.
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

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.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	13:50
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17205

Project ID: 126-3
Client ID: SB5 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	2680	53	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	03/11/14	EK	SW6010	
Arsenic	4.4	0.7	mg/Kg	03/11/14	EK	SW6010	
Barium	84.6	0.36	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.23	0.20	mg/Kg	03/11/14	EK	SW6010	
Calcium	1530	5.3	mg/Kg	03/11/14	EK	SW6010	
Cadmium	1.37	0.36	mg/Kg	03/11/14	EK	SW6010	
Chromium	12.6	0.36	mg/Kg	03/11/14	EK	SW6010	
Cobalt	6.64	0.36	mg/Kg	03/11/14	EK	SW6010	
Copper	43.4	0.36	mg/kg	03/11/14	EK	SW6010	B
Iron	34900	53	mg/Kg	03/12/14	LK	SW6010	
Lead	125	0.36	mg/Kg	03/11/14	EK	SW6010	
Magnesium	1260	5.3	mg/Kg	03/11/14	EK	SW6010	
Manganese	222	3.6	mg/Kg	03/12/14	LK	SW6010	
Mercury	0.53	0.08	mg/Kg	03/11/14	RS	SW-7471	
Nickel	12.3	0.36	mg/Kg	03/11/14	EK	SW6010	
Potassium	669	5.3	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.4	1.4	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.36	0.36	mg/Kg	03/11/14	EK	SW6010	
Sodium	82.8	5.3	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.2	3.2	mg/Kg	03/11/14	EK	SW6010	
Vanadium	15.6	0.36	mg/Kg	03/11/14	EK	SW6010	
Zinc	424	3.6	mg/Kg	03/12/14	LK	SW6010	
Percent Solid	90		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB5 (0-2)

Phoenix I.D.: BG17205

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	74	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	74	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	79		%	03/11/14	AW	30 - 150 %	
% TCMX	82		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.5	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	11	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	7.0	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.5	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	35	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	180	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	102		%	03/11/14	MH	30 - 150 %	
% TCMX	89		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB5 (0-2)

Phoenix I.D.: BG17205

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	28	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	33	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	3.3	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	33	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB5 (0-2)

Phoenix I.D.: BG17205

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	1800	300	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	5.5	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	93		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	100		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	97		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB5 (0-2)

Phoenix I.D.: BG17205

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	590	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	440	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	300	260	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	550	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	370	260	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	520	260	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	260	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	320	260	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	370	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	71		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB5 (0-2)

Phoenix I.D.: BG17205

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	68		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	67		%	03/11/14	DD	30 - 130 %
% Phenol-d5	71		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	59		%	03/11/14	DD	30 - 130 %

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

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	14:15
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17206

Project ID: 126-3
Client ID: SB5 (8-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	7940	59	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	03/11/14	EK	SW6010	
Arsenic	3.8	0.8	mg/Kg	03/11/14	EK	SW6010	
Barium	87.8	0.39	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.56	0.31	mg/Kg	03/11/14	EK	SW6010	
Calcium	1690	5.9	mg/Kg	03/11/14	EK	SW6010	
Cadmium	0.46	0.39	mg/Kg	03/11/14	EK	SW6010	
Chromium	16.7	0.39	mg/Kg	03/11/14	EK	SW6010	
Cobalt	6.91	0.39	mg/Kg	03/11/14	EK	SW6010	
Copper	28.9	0.39	mg/kg	03/11/14	EK	SW6010	B
Iron	23400	59	mg/Kg	03/12/14	LK	SW6010	
Lead	189	3.9	mg/Kg	03/12/14	LK	SW6010	
Magnesium	2010	5.9	mg/Kg	03/11/14	EK	SW6010	
Manganese	274	3.9	mg/Kg	03/12/14	LK	SW6010	
Mercury	1.40	0.09	mg/Kg	03/11/14	RS	SW-7471	
Nickel	21.2	0.39	mg/Kg	03/11/14	EK	SW6010	
Potassium	1350	5.9	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.6	1.6	mg/Kg	03/11/14	LK	SW6010	
Silver	< 2.0	2.0	mg/Kg	03/11/14	EK	SW6010	
Sodium	153	5.9	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.5	3.5	mg/Kg	03/11/14	EK	SW6010	
Vanadium	32.0	0.39	mg/Kg	03/11/14	EK	SW6010	
Zinc	71.0	0.39	mg/Kg	03/11/14	EK	SW6010	
Percent Solid	87		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB5 (8-12)

Phoenix I.D.: BG17206

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	73		%	03/11/14	AW	30 - 150 %	
% TCMX	76		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	12	2.2	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	11	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	9.0	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	36	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	190	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	117		%	03/11/14	MH	30 - 150 %	
% TCMX	89		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	2.4	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB5 (8-12)

Phoenix I.D.: BG17206

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	20	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	20	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	50	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	1200	290	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	2.4	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	24	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	8.0	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB5 (8-12)

Phoenix I.D.: BG17206

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	8.0	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	8.0	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	4.0	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	105		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	103		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	100		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB5 (8-12)

Phoenix I.D.: BG17206

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	610	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	450	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	270	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	350	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	570	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	290	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	470	270	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	380	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	330	270	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	270	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	460	270	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	380	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	70		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	66		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB5 (8-12)

Phoenix I.D.: BG17206

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	62		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	70		%	03/11/14	DD	30 - 130 %
% Phenol-d5	66		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	70		%	03/11/14	DD	30 - 130 %

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

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	14:45
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17207

Project ID: 126-3
Client ID: SB4 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	1900	5.0	mg/Kg	03/11/14	EK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	03/11/14	EK	SW6010	
Arsenic	11.7	0.7	mg/Kg	03/11/14	EK	SW6010	
Barium	233	0.33	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.34	0.27	mg/Kg	03/11/14	EK	SW6010	
Calcium	4940	5.0	mg/Kg	03/11/14	EK	SW6010	
Cadmium	2.26	0.33	mg/Kg	03/11/14	EK	SW6010	
Chromium	5.65	0.33	mg/Kg	03/11/14	EK	SW6010	
Cobalt	7.48	0.33	mg/Kg	03/11/14	EK	SW6010	
Copper	38.5	0.33	mg/kg	03/11/14	EK	SW6010	B
Iron	20800	50	mg/Kg	03/12/14	LK	SW6010	
Lead	164	3.3	mg/Kg	03/12/14	LK	SW6010	
Magnesium	303	5.0	mg/Kg	03/11/14	EK	SW6010	
Manganese	164	3.3	mg/Kg	03/12/14	LK	SW6010	
Mercury	0.56	0.06	mg/Kg	03/11/14	RS	SW-7471	
Nickel	14.3	0.33	mg/Kg	03/11/14	EK	SW6010	
Potassium	504	5.0	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.3	1.3	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.33	0.33	mg/Kg	03/11/14	EK	SW6010	
Sodium	267	5.0	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.0	3.0	mg/Kg	03/11/14	EK	SW6010	
Vanadium	9.93	0.33	mg/Kg	03/11/14	EK	SW6010	
Zinc	2360	33	mg/Kg	03/12/14	LK	SW6010	
Percent Solid	93		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB4 (0-2)

Phoenix I.D.: BG17207

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	69	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	69	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	69		%	03/11/14	AW	30 - 150 %	
% TCMX	69		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.1	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.1	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	2.1	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.3	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.3	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.0	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.3	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	10	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.3	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.0	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.3	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	6.7	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	6.7	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	6.7	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	6.7	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	6.7	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.0	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.1	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.3	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	33	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	170	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	85		%	03/11/14	MH	30 - 150 %	
% TCMX	72		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB4 (0-2)

Phoenix I.D.: BG17207

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	27	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	32	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	3.2	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	32	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB4 (0-2)

Phoenix I.D.: BG17207

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	5.3	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	94		%	03/11/14	JLI	70 - 130 %	
% Dibromofluoromethane	98		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	101		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	350	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	560	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	560	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	560	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB4 (0-2)

Phoenix I.D.: BG17207

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	560	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	310	250	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	700	250	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	2200	250	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	420	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	1800	250	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	2500	250	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	860	250	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	1100	250	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	350	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	530	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	2200	250	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	260	250	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	3400	250	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	280	250	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	830	250	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	340	250	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	350	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	350	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	350	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	350	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	3200	250	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	250	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	3000	250	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	350	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	76		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB4 (0-2)

Phoenix I.D.: BG17207

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	61		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	82		%	03/11/14	DD	30 - 130 %
% Phenol-d5	68		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	64		%	03/11/14	DD	30 - 130 %

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

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.

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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	15:00
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17208

Project ID: 126-3
Client ID: SB4 (8-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aluminum	10200	64	mg/Kg	03/12/14	LK	SW6010	
Antimony	< 4.3	4.3	mg/Kg	03/11/14	EK	SW6010	
Arsenic	2.2	0.9	mg/Kg	03/11/14	EK	SW6010	
Barium	59.7	0.43	mg/Kg	03/11/14	EK	SW6010	
Beryllium	0.49	0.34	mg/Kg	03/11/14	EK	SW6010	
Calcium	4280	6.4	mg/Kg	03/11/14	EK	SW6010	
Cadmium	< 0.43	0.43	mg/Kg	03/11/14	EK	SW6010	
Chromium	21.7	0.43	mg/Kg	03/11/14	EK	SW6010	
Cobalt	6.63	0.43	mg/Kg	03/11/14	EK	SW6010	
Copper	21.2	0.43	mg/kg	03/11/14	EK	SW6010	B
Iron	23700	64	mg/Kg	03/12/14	LK	SW6010	
Lead	93.5	0.43	mg/Kg	03/11/14	EK	SW6010	
Magnesium	2270	6.4	mg/Kg	03/11/14	EK	SW6010	
Manganese	535	4.3	mg/Kg	03/12/14	LK	SW6010	
Mercury	0.27	0.09	mg/Kg	03/11/14	RS	SW-7471	
Nickel	13.0	0.43	mg/Kg	03/11/14	EK	SW6010	
Potassium	1290	6.4	mg/Kg	03/11/14	EK	SW6010	B
Selenium	< 1.7	1.7	mg/Kg	03/11/14	EK	SW6010	
Silver	< 0.43	0.43	mg/Kg	03/11/14	EK	SW6010	
Sodium	141	6.4	mg/Kg	03/11/14	EK	SW6010	
Thallium	< 3.9	3.9	mg/Kg	03/11/14	EK	SW6010	
Vanadium	32.5	0.43	mg/Kg	03/11/14	EK	SW6010	
Zinc	47.4	0.43	mg/Kg	03/11/14	LK	SW6010	
Percent Solid	82		%	03/10/14	I	E160.3	
Soil Extraction for PCB	Completed			03/10/14	BB	SW3545	
Soil Extraction for Pesticide	Completed			03/10/14	BB/V	SW3545	
Soil Extraction for SVOA	Completed			03/10/14	JJ/V	SW3545	
Mercury Digestion	Completed			03/11/14	I/I	SW7471	

Project ID: 126-3
Client ID: SB4 (8-12)

Phoenix I.D.: BG17208

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			03/10/14	CB/AG	SW846 - 3050	
Field Extraction	Completed			03/06/14		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1221	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1232	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1242	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1248	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1254	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1260	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1262	ND	79	ug/Kg	03/11/14	AW	SW 8082	
PCB-1268	ND	79	ug/Kg	03/11/14	AW	SW 8082	
QA/QC Surrogates							
% DCBP	75		%	03/11/14	AW	30 - 150 %	
% TCMX	81		%	03/11/14	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.4	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDE	ND	2.4	ug/Kg	03/11/14	MH	SW8081	
4,4' -DDT	ND	2.4	ug/Kg	03/11/14	MH	SW8081	
a-BHC	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
Alachlor	ND	3.8	ug/Kg	03/11/14	MH	SW8081	1
Aldrin	ND	1.2	ug/Kg	03/11/14	MH	SW8081	
b-BHC	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
Chlordane	ND	12	ug/Kg	03/11/14	MH	SW8081	
d-BHC	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
Dieldrin	ND	1.2	ug/Kg	03/11/14	MH	SW8081	
Endosulfan I	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
Endosulfan II	ND	7.6	ug/Kg	03/11/14	MH	SW8081	
Endosulfan sulfate	ND	7.6	ug/Kg	03/11/14	MH	SW8081	
Endrin	ND	7.6	ug/Kg	03/11/14	MH	SW8081	
Endrin aldehyde	ND	7.6	ug/Kg	03/11/14	MH	SW8081	
Endrin ketone	ND	7.6	ug/Kg	03/11/14	MH	SW8081	
g-BHC	ND	1.2	ug/Kg	03/11/14	MH	SW8081	
Heptachlor	ND	2.4	ug/Kg	03/11/14	MH	SW8081	
Heptachlor epoxide	ND	3.8	ug/Kg	03/11/14	MH	SW8081	
Methoxychlor	ND	38	ug/Kg	03/11/14	MH	SW8081	
Toxaphene	ND	200	ug/Kg	03/11/14	MH	SW8081	
QA/QC Surrogates							
% DCBP	103		%	03/11/14	MH	30 - 150 %	
% TCMX	87		%	03/11/14	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1,1-Trichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1,2,2-Tetrachloroethane	ND	190	ug/Kg	03/11/14	JLI	SW8260	
1,1,2-Trichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,1-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB4 (8-12)

Phoenix I.D.: BG17208

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,3-Trichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2,4-Trimethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromo-3-chloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dibromoethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,2-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3,5-Trimethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,3-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
1,4-Dichlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2,2-Dichloropropane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2-Chlorotoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
2-Hexanone	ND	1600	ug/Kg	03/11/14	JLI	SW8260	
2-Isopropyltoluene	1700	320	ug/Kg	03/11/14	JLI	SW8260	1
4-Chlorotoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	1600	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	1900	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	190	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	1900	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	640	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	580	320	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	320	ug/Kg	03/11/14	JLI	SW8260	

Project ID: 126-3
Client ID: SB4 (8-12)

Phoenix I.D.: BG17208

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	4600	320	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	960	320	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	640	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	380	320	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	640	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	320	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	320	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	03/11/14	JLI	70 - 130 %	
% Bromofluorobenzene	175		%	03/11/14	JLI	70 - 130 %	3
% Dibromofluoromethane	102		%	03/11/14	JLI	70 - 130 %	
% Toluene-d8	102		%	03/11/14	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270
1,2-Diphenylhydrazine	ND	400	ug/Kg	03/11/14	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrophenol	ND	640	ug/Kg	03/11/14	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	03/11/14	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	03/11/14	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	03/11/14	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	03/11/14	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	03/11/14	DD	SW 8270
2-Nitroaniline	ND	640	ug/Kg	03/11/14	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	03/11/14	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	03/11/14	DD	SW 8270
3-Nitroaniline	ND	640	ug/Kg	03/11/14	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	03/11/14	DD	SW 8270
4-Bromophenyl phenyl ether	ND	400	ug/Kg	03/11/14	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	03/11/14	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	03/11/14	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	03/11/14	DD	SW 8270

Project ID: 126-3
Client ID: SB4 (8-12)

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	640	ug/Kg	03/11/14	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Acenaphthylene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Aniline	ND	330	ug/Kg	03/11/14	DD	SW 8270	
Anthracene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benz(a)anthracene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benzidine	ND	480	ug/Kg	03/11/14	DD	SW 8270	
Benzo(a)pyrene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benzo(b)fluoranthene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benzo(ghi)perylene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	03/11/14	DD	SW 8270	1
Benzyl butyl phthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	400	ug/Kg	03/11/14	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	03/11/14	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Carbazole	ND	600	ug/Kg	03/11/14	DD	SW 8270	
Chrysene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Fluoranthene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Fluorene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Isophorone	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Naphthalene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodimethylamine	ND	400	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	03/11/14	DD	SW 8270	
N-Nitrosodiphenylamine	ND	400	ug/Kg	03/11/14	DD	SW 8270	
Pentachloronitrobenzene	ND	400	ug/Kg	03/11/14	DD	SW 8270	
Pentachlorophenol	ND	400	ug/Kg	03/11/14	DD	SW 8270	
Phenanthrene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Phenol	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Pyrene	ND	280	ug/Kg	03/11/14	DD	SW 8270	
Pyridine	ND	400	ug/Kg	03/11/14	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	74		%	03/11/14	DD	30 - 130 %	
% 2-Fluorobiphenyl	69		%	03/11/14	DD	30 - 130 %	

Project ID: 126-3
Client ID: SB4 (8-12)

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	65		%	03/11/14	DD	30 - 130 %
% Nitrobenzene-d5	75		%	03/11/14	DD	30 - 130 %
% Phenol-d5	70		%	03/11/14	DD	30 - 130 %
% Terphenyl-d14	74		%	03/11/14	DD	30 - 130 %

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.
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

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.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of non-target compounds.
**Surrogate recoveries were outside control limits for volatiles due to matrix 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
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	RK	03/06/14	16:40
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17209

Project ID: 126-3
Client ID: MW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Aluminum	1.01	0.010	mg/L	03/11/14	LK	SW6010
Aluminum (Dissolved)	0.24	0.01	mg/L	03/11/14	LK	SW6010
Antimony (Dissolved)	< 0.005	0.005	mg/L	03/11/14	LK	SW6010
Antimony	< 0.005	0.005	mg/L	03/11/14	LK	SW6010
Arsenic	0.073	0.004	mg/L	03/11/14	LK	SW6010
Arsenic (Dissolved)	0.039	0.004	mg/L	03/11/14	LK	SW6010
Barium	0.387	0.002	mg/L	03/11/14	LK	SW6010
Barium (Dissolved)	0.428	0.002	mg/L	03/11/14	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Calcium	115	0.010	mg/L	03/11/14	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Calcium (Dissolved)	196	0.11	mg/L	03/11/14	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Chromium	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	03/11/14	LK	SW6010
Copper	0.015	0.005	mg/L	03/11/14	LK	SW6010
Cobalt (Dissolved)	0.004	0.001	mg/L	03/11/14	LK	SW6010
Copper (Dissolved)	0.005	0.005	mg/L	03/11/14	LK	SW6010
Iron (Dissolved)	7.66	0.011	mg/L	03/11/14	LK	SW6010
Iron	27.4	0.010	mg/L	03/11/14	LK	SW6010
Lead (Dissolved)	0.010	0.002	mg/L	03/11/14	LK	SW6010
Lead	0.086	0.002	mg/L	03/11/14	LK	SW6010
Magnesium (Dissolved)	35.5	0.01	mg/L	03/11/14	LK	SW6010
Manganese (Dissolved)	0.614	0.001	mg/L	03/11/14	LK	SW6010
Magnesium	14.4	0.01	mg/L	03/11/14	LK	SW6010
Manganese	1.15	0.001	mg/L	03/11/14	LK	SW6010

Project ID: 126-3
Client ID: MW-1

Phoenix I.D.: BG17209

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	03/11/14	RS	SW7470	
Mercury	< 0.0002	0.0002	mg/L	03/11/14	RS	SW7470	
Nickel (Dissolved)	0.003	0.001	mg/L	03/11/14	LK	SW6010	
Nickel	0.002	0.001	mg/L	03/11/14	LK	SW6010	
Potassium (Dissolved)	50.7	1.1	mg/L	03/11/14	EK	SW6010	
Potassium	28.7	0.1	mg/L	03/11/14	LK	SW6010	
Selenium (Dissolved)	< 0.011	0.011	mg/L	03/11/14	LK	SW6010	
Selenium	< 0.010	0.010	mg/L	03/11/14	LK	SW6010	
Silver	< 0.001	0.001	mg/L	03/11/14	LK	SW6010	
Silver (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010	
Sodium (Dissolved)	132	1.1	mg/L	03/11/14	EK	SW6010	B
Sodium	157	1.0	mg/L	03/11/14	LK	SW6010	
Thallium (Dissolved)	< 0.002	0.002	mg/L	03/11/14	RS	SW7010	
Thallium	< 0.002	0.002	mg/L	03/11/14	RS	SM3113B/SW70	
Vanadium (Dissolved)	< 0.002	0.002	mg/L	03/11/14	LK	SW6010	
Vanadium	< 0.002	0.002	mg/L	03/11/14	LK	SW6010	
Zinc (Dissolved)	0.012	0.002	mg/L	03/11/14	LK	SW6010	
Zinc	0.047	0.002	mg/L	03/11/14	LK	SW6010	
Filtration	Completed			03/10/14	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed			03/11/14	I/I	SW7470	
Mercury Digestion	Completed			03/11/14	I/I	SW7470	
PCB Extraction (2 Liter)	Completed			03/10/14	T	SW3510	
Pesticide Extraction	Completed			03/10/14	T	SW3510	
Semi-Volatile Extraction	Completed			03/10/14	e/K	SW3520	
Dissolved Metals Preparation	Completed			03/10/14	AG	SW846-3005	
Total Metals Digestion	Completed			03/10/14	AG	SW846 - 3050	

Polychlorinated Biphenyls

PCB-1016	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1221	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1232	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1242	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1248	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1254	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1260	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1262	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1268	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
QA/QC Surrogates							
% DCBP	68		%	03/12/14	AW	608/ 8082	
% TCMX	44		%	03/12/14	AW	608/ 8082	

Pesticides

4,4' -DDD	ND	0.040	ug/L	03/13/14	MH	608/8081	
4,4' -DDE	ND	0.040	ug/L	03/13/14	MH	608/8081	
4,4' -DDT	ND	0.040	ug/L	03/13/14	MH	608/8081	
a-BHC	ND	0.020	ug/L	03/13/14	MH	608/8081	
Alachlor	ND	0.040	ug/L	03/13/14	MH	608/8081	1
Aldrin	ND	0.020	ug/L	03/13/14	MH	608/8081	
b-BHC	ND	0.020	ug/L	03/13/14	MH	608/8081	
Chlordane	ND	0.20	ug/L	03/13/14	MH	608/8081	

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Client ID: MW-1

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
d-BHC	ND	0.020	ug/L	03/13/14	MH	608/8081	
Dieldrin	ND	0.040	ug/L	03/13/14	MH	608/8081	
Endosulfan I	ND	0.020	ug/L	03/13/14	MH	608/8081	
Endosulfan II	ND	0.040	ug/L	03/13/14	MH	608/8081	
Endosulfan sulfate	ND	0.040	ug/L	03/13/14	MH	608/8081	
Endrin	ND	0.040	ug/L	03/13/14	MH	608/8081	
Endrin aldehyde	ND	0.040	ug/L	03/13/14	MH	608/8081	
Endrin ketone	ND	0.040	ug/L	03/13/14	MH	608/8081	
g-BHC	ND	0.020	ug/L	03/13/14	MH	608/8081	
Heptachlor	ND	0.020	ug/L	03/13/14	MH	608/8081	
Heptachlor epoxide	ND	0.020	ug/L	03/13/14	MH	608/8081	
Methoxychlor	ND	0.080	ug/L	03/13/14	MH	608/8081	
Toxaphene	ND	0.40	ug/L	03/13/14	MH	608/8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/13/14	MH	608/8081	
% TCMX	Diluted Out		%	03/13/14	MH	608/8081	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	03/13/14	MH	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Hexanone	ND	5.0	ug/L	03/13/14	MH	SW8260	
2-Isopropyltoluene	14	1.0	ug/L	03/13/14	MH	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	03/13/14	MH	SW8260	
Acetone	ND	25	ug/L	03/13/14	MH	SW8260	
Acrylonitrile	ND	5.0	ug/L	03/13/14	MH	SW8260	
Benzene	ND	0.70	ug/L	03/13/14	MH	SW8260	
Bromobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromochloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromodichloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Carbon Disulfide	ND	5.0	ug/L	03/13/14	MH	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chlorobenzene	1.3	1.0	ug/L	03/13/14	MH	SW8260	
Chloroethane	4.8	1.0	ug/L	03/13/14	MH	SW8260	
Chloroform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Dibromochloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
Dibromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Ethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Isopropylbenzene	4.8	1.0	ug/L	03/13/14	MH	SW8260	
m&p-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	03/13/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	3.4	1.0	ug/L	03/13/14	MH	SW8260	
Methylene chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Naphthalene	ND	1.0	ug/L	03/13/14	MH	SW8260	
n-Butylbenzene	6.7	1.0	ug/L	03/13/14	MH	SW8260	
n-Propylbenzene	2.0	1.0	ug/L	03/13/14	MH	SW8260	
o-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
sec-Butylbenzene	20	1.0	ug/L	03/13/14	MH	SW8260	
Styrene	ND	1.0	ug/L	03/13/14	MH	SW8260	
tert-Butylbenzene	8.6	1.0	ug/L	03/13/14	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/13/14	MH	SW8260	1
Toluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Total Xylenes	ND	2.0	ug/L	03/13/14	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/13/14	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/13/14	MH	70 - 130 %	
% Bromofluorobenzene	108		%	03/13/14	MH	70 - 130 %	
% Dibromofluoromethane	97		%	03/13/14	MH	70 - 130 %	
% Toluene-d8	103		%	03/13/14	MH	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.6	ug/L	03/13/14	DD	SW8270
1,2-Dichlorobenzene	ND	2.8	ug/L	03/13/14	DD	SW8270
1,2-Diphenylhydrazine	ND	5.6	ug/L	03/13/14	DD	SW8270
1,3-Dichlorobenzene	ND	2.8	ug/L	03/13/14	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	2.8	ug/L	03/13/14	DD	SW8270
2,4,5-Trichlorophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
2,4,6-Trichlorophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
2,4-Dichlorophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
2,4-Dimethylphenol	ND	1.1	ug/L	03/13/14	DD	SW8270
2,4-Dinitrotoluene	ND	5.6	ug/L	03/13/14	DD	SW8270
2,6-Dinitrotoluene	ND	5.6	ug/L	03/13/14	DD	SW8270
2-Chloronaphthalene	ND	5.6	ug/L	03/13/14	DD	SW8270
2-Chlorophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
2-Methylnaphthalene	ND	5.6	ug/L	03/13/14	DD	SW8270
2-Methylphenol (o-cresol)	ND	1.1	ug/L	03/13/14	DD	SW8270
2-Nitroaniline	ND	5.6	ug/L	03/13/14	DD	SW8270
2-Nitrophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	03/13/14	DD	SW8270
3,3'-Dichlorobenzidine	ND	5.6	ug/L	03/13/14	DD	SW8270
3-Nitroaniline	ND	5.6	ug/L	03/13/14	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.6	ug/L	03/13/14	DD	SW8270
4-Chloro-3-methylphenol	ND	1.1	ug/L	03/13/14	DD	SW8270
4-Chloroaniline	ND	5.6	ug/L	03/13/14	DD	SW8270
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	03/13/14	DD	SW8270
4-Nitroaniline	ND	5.6	ug/L	03/13/14	DD	SW8270
4-Nitrophenol	ND	1.1	ug/L	03/13/14	DD	SW8270
Acetophenone	ND	5.6	ug/L	03/13/14	DD	SW8270
Aniline	ND	5.6	ug/L	03/13/14	DD	SW8270
Anthracene	ND	5.6	ug/L	03/13/14	DD	SW8270
Benzidine	ND	56	ug/L	03/13/14	DD	SW8270
Benzoic acid	ND	56	ug/L	03/13/14	DD	SW8270
Benzyl butyl phthalate	ND	5.6	ug/L	03/13/14	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.6	ug/L	03/13/14	DD	SW8270
Bis(2-chloroethyl)ether	ND	1.1	ug/L	03/13/14	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.6	ug/L	03/13/14	DD	SW8270
Carbazole	ND	5.6	ug/L	03/13/14	DD	SW8270
Dibenzofuran	ND	5.6	ug/L	03/13/14	DD	SW8270
Diethyl phthalate	ND	5.6	ug/L	03/13/14	DD	SW8270
Dimethylphthalate	ND	5.6	ug/L	03/13/14	DD	SW8270
Di-n-butylphthalate	ND	5.6	ug/L	03/13/14	DD	SW8270
Di-n-octylphthalate	ND	5.6	ug/L	03/13/14	DD	SW8270
Fluoranthene	ND	5.6	ug/L	03/13/14	DD	SW8270
Fluorene	ND	5.6	ug/L	03/13/14	DD	SW8270
Hexachlorocyclopentadiene	ND	5.6	ug/L	03/13/14	DD	SW8270
Isophorone	ND	5.6	ug/L	03/13/14	DD	SW8270
Naphthalene	ND	5.6	ug/L	03/13/14	DD	SW8270
N-Nitrosodimethylamine	ND	5.6	ug/L	03/13/14	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.6	ug/L	03/13/14	DD	SW8270
N-Nitrosodiphenylamine	ND	5.6	ug/L	03/13/14	DD	SW8270
Phenol	ND	1.1	ug/L	03/13/14	DD	SW8270
Pyrene	ND	5.6	ug/L	03/13/14	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	101		%	03/13/14	DD	15 - 110 %

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	71		%	03/13/14	DD	30 - 130 %
% 2-Fluorophenol	60		%	03/13/14	DD	15 - 110 %
% Nitrobenzene-d5	107		%	03/13/14	DD	30 - 130 %
% Phenol-d5	63		%	03/13/14	DD	15 - 110 %
% Terphenyl-d14	78		%	03/13/14	DD	30 - 130 %
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	1.8	ug/L	03/12/14	DD	SW8270 (SIM)
2,4-Dinitrophenol	ND	1.1	ug/L	03/12/14	DD	SW8270 (SIM)
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	03/12/14	DD	SW8270 (SIM)
Acenaphthene	0.56	0.06	ug/L	03/12/14	DD	SW8270 (SIM)
Acenaphthylene	0.09	0.06	ug/L	03/12/14	DD	SW8270 (SIM)
Benz(a)anthracene	0.41	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Benzo(a)pyrene	0.38	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.51	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.3	ug/L	03/12/14	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.18	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.8	ug/L	03/12/14	DD	SW8270 (SIM)
Chrysene	0.4	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	03/12/14	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.04	ug/L	03/12/14	DD	SW8270 (SIM)
Hexachlorobutadiene	ND	0.56	ug/L	03/12/14	DD	SW8270 (SIM)
Hexachloroethane	ND	2.7	ug/L	03/12/14	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.21	0.02	ug/L	03/12/14	DD	SW8270 (SIM)
Nitrobenzene	ND	0.44	ug/L	03/12/14	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	03/12/14	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.89	ug/L	03/12/14	DD	SW8270 (SIM)
Phenanthrene	0.81	0.06	ug/L	03/12/14	DD	SW8270 (SIM)
Pyridine	ND	0.56	ug/L	03/12/14	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	101		%	03/12/14	DD	15 - 110 %
% 2-Fluorobiphenyl	71		%	03/12/14	DD	30 - 130 %
% 2-Fluorophenol	60		%	03/12/14	DD	15 - 110 %
% Nitrobenzene-d5	107		%	03/12/14	DD	30 - 130 %
% Phenol-d5	63		%	03/12/14	DD	15 - 110 %
% Terphenyl-d14	78		%	03/12/14	DD	30 - 130 %

Project ID: 126-3
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Parameter	Result	RL/ PQL	Units	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.
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

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.
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Phyllis Shiller, Laboratory Director
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	RK	03/06/14	17:30
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17210

Project ID: 126-3
Client ID: MW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Aluminum	7.55	0.010	mg/L	03/11/14	LK	SW6010
Aluminum (Dissolved)	0.22	0.01	mg/L	03/11/14	LK	SW6010
Antimony (Dissolved)	< 0.005	0.005	mg/L	03/11/14	LK	SW6010
Antimony	< 0.005	0.005	mg/L	03/11/14	LK	SW6010
Arsenic	0.082	0.004	mg/L	03/11/14	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	03/11/14	LK	SW6010
Barium	0.863	0.002	mg/L	03/11/14	LK	SW6010
Barium (Dissolved)	0.191	0.002	mg/L	03/11/14	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Calcium	270	0.10	mg/L	03/11/14	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Calcium (Dissolved)	104	0.01	mg/L	03/11/14	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Chromium	0.015	0.001	mg/L	03/11/14	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010
Cobalt	0.009	0.002	mg/L	03/11/14	LK	SW6010
Copper	0.123	0.005	mg/L	03/11/14	LK	SW6010
Cobalt (Dissolved)	0.003	0.001	mg/L	03/11/14	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	03/11/14	LK	SW6010
Iron (Dissolved)	13.2	0.011	mg/L	03/11/14	LK	SW6010
Iron	44.9	0.010	mg/L	03/11/14	LK	SW6010
Lead (Dissolved)	0.013	0.002	mg/L	03/11/14	LK	SW6010
Lead	0.847	0.002	mg/L	03/11/14	LK	SW6010
Magnesium (Dissolved)	13.9	0.01	mg/L	03/11/14	LK	SW6010
Manganese (Dissolved)	2.05	0.011	mg/L	03/11/14	EK	SW6010
Magnesium	35.6	0.01	mg/L	03/11/14	LK	SW6010
Manganese	0.931	0.001	mg/L	03/11/14	LK	SW6010

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Client ID: MW-2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	03/11/14	RS	SW7470	
Mercury	0.0045	0.0002	mg/L	03/11/14	RS	SW7470	
Nickel (Dissolved)	0.007	0.001	mg/L	03/11/14	LK	SW6010	
Nickel	0.014	0.001	mg/L	03/11/14	LK	SW6010	
Potassium (Dissolved)	38.2	0.1	mg/L	03/11/14	LK	SW6010	
Potassium	56.7	1.0	mg/L	03/11/14	LK	SW6010	
Selenium (Dissolved)	< 0.011	0.011	mg/L	03/11/14	LK	SW6010	
Selenium	< 0.010	0.010	mg/L	03/11/14	LK	SW6010	
Silver	< 0.001	0.001	mg/L	03/11/14	LK	SW6010	
Silver (Dissolved)	< 0.001	0.001	mg/L	03/11/14	LK	SW6010	
Sodium (Dissolved)	60.5	0.11	mg/L	03/11/14	LK	SW6010	B
Sodium	137	1.0	mg/L	03/11/14	LK	SW6010	
Thallium (Dissolved)	< 0.002	0.002	mg/L	03/11/14	RS	SW7010	
Thallium	< 0.002	0.002	mg/L	03/11/14	RS	SM3113B/SW70	
Vanadium (Dissolved)	< 0.002	0.002	mg/L	03/11/14	LK	SW6010	
Vanadium	0.019	0.002	mg/L	03/11/14	LK	SW6010	
Zinc (Dissolved)	0.023	0.002	mg/L	03/11/14	LK	SW6010	
Zinc	0.301	0.002	mg/L	03/11/14	LK	SW6010	
Filtration	Completed			03/10/14	AG	0.45um Filter	
Dissolved Mercury Digestion	Completed			03/11/14	I/I	SW7470	
Mercury Digestion	Completed			03/11/14	I/I	SW7470	
PCB Extraction (2 Liter)	Completed			03/10/14	T	SW3510	
Pesticide Extraction	Completed			03/10/14	T	SW3510	
Semi-Volatile Extraction	Completed			03/10/14	E/K	SW3520	
Dissolved Metals Preparation	Completed			03/10/14	AG	SW846-3005	
Total Metals Digestion	Completed			03/10/14	AG	SW846 - 3050	

Polychlorinated Biphenyls

PCB-1016	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1221	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1232	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1242	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1248	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1254	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1260	0.30	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1262	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
PCB-1268	ND	0.050	ug/L	03/12/14	AW	608/ 8082	
QA/QC Surrogates							
% DCBP	Interference		%	03/12/14	AW	608/ 8082	
% TCMX	37		%	03/12/14	AW	608/ 8082	

Pesticides

4,4' -DDD	ND	2.0	ug/L	03/13/14	MH	608/8081	
4,4' -DDE	ND	2.0	ug/L	03/13/14	MH	608/8081	
4,4' -DDT	ND	2.0	ug/L	03/13/14	MH	608/8081	
a-BHC	ND	1.0	ug/L	03/13/14	MH	608/8081	
Alachlor	ND	2.0	ug/L	03/13/14	MH	608/8081	1
Aldrin	ND	1.0	ug/L	03/13/14	MH	608/8081	
b-BHC	ND	1.0	ug/L	03/13/14	MH	608/8081	
Chlordane	ND	10	ug/L	03/13/14	MH	608/8081	

Project ID: 126-3
Client ID: MW-2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
d-BHC	ND	1.0	ug/L	03/13/14	MH	608/8081	
Dieldrin	ND	2.0	ug/L	03/13/14	MH	608/8081	
Endosulfan I	ND	1.0	ug/L	03/13/14	MH	608/8081	
Endosulfan II	ND	2.0	ug/L	03/13/14	MH	608/8081	
Endosulfan sulfate	ND	2.0	ug/L	03/13/14	MH	608/8081	
Endrin	ND	2.0	ug/L	03/13/14	MH	608/8081	
Endrin aldehyde	ND	2.0	ug/L	03/13/14	MH	608/8081	
Endrin ketone	ND	2.0	ug/L	03/13/14	MH	608/8081	
g-BHC	ND	1.0	ug/L	03/13/14	MH	608/8081	
Heptachlor	ND	1.0	ug/L	03/13/14	MH	608/8081	
Heptachlor epoxide	ND	1.0	ug/L	03/13/14	MH	608/8081	
Methoxychlor	ND	4.0	ug/L	03/13/14	MH	608/8081	
Toxaphene	ND	20	ug/L	03/13/14	MH	608/8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	03/13/14	MH	608/8081	
% TCMX	Diluted Out		%	03/13/14	MH	608/8081	

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/14/14	MH	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	03/14/14	MH	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	03/14/14	MH	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	03/14/14	MH	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	03/14/14	MH	SW8260	
2-Hexanone	ND	5.0	ug/L	03/14/14	MH	SW8260	
2-Isopropyltoluene	22	1.0	ug/L	03/14/14	MH	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	03/14/14	MH	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	03/14/14	MH	SW8260	
Acetone	ND	25	ug/L	03/14/14	MH	SW8260	
Acrylonitrile	ND	5.0	ug/L	03/14/14	MH	SW8260	
Benzene	ND	0.70	ug/L	03/14/14	MH	SW8260	
Bromobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Bromochloromethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Bromodichloromethane	ND	0.50	ug/L	03/14/14	MH	SW8260	

Project ID: 126-3
Client ID: MW-2

Phoenix I.D.: BG17210

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	03/14/14	MH	SW8260	
Bromomethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Carbon Disulfide	ND	5.0	ug/L	03/14/14	MH	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	03/14/14	MH	SW8260	
Chlorobenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Chloroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Chloroform	ND	1.0	ug/L	03/14/14	MH	SW8260	
Chloromethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/14/14	MH	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	03/14/14	MH	SW8260	
Dibromochloromethane	ND	0.50	ug/L	03/14/14	MH	SW8260	
Dibromomethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Ethylbenzene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	03/14/14	MH	SW8260	
Isopropylbenzene	6.1	1.0	ug/L	03/14/14	MH	SW8260	
m&p-Xylene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	03/14/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	03/14/14	MH	SW8260	
Methylene chloride	ND	1.0	ug/L	03/14/14	MH	SW8260	
Naphthalene	ND	1.0	ug/L	03/14/14	MH	SW8260	
n-Butylbenzene	6.8	1.0	ug/L	03/14/14	MH	SW8260	
n-Propylbenzene	2.2	1.0	ug/L	03/14/14	MH	SW8260	
o-Xylene	ND	1.0	ug/L	03/14/14	MH	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	03/14/14	MH	SW8260	
sec-Butylbenzene	29	1.0	ug/L	03/14/14	MH	SW8260	
Styrene	ND	1.0	ug/L	03/14/14	MH	SW8260	
tert-Butylbenzene	13	1.0	ug/L	03/14/14	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/14/14	MH	SW8260	1
Toluene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Total Xylenes	ND	2.0	ug/L	03/14/14	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/14/14	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	03/14/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/14/14	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	03/14/14	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	03/14/14	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	03/14/14	MH	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	03/14/14	MH	70 - 130 %	
% Bromofluorobenzene	156		%	03/14/14	MH	70 - 130 %	3
% Dibromofluoromethane	93		%	03/14/14	MH	70 - 130 %	
% Toluene-d8	104		%	03/14/14	MH	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
1,2,4-Trichlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
1,2-Dichlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
1,2-Diphenylhydrazine	ND	20	ug/L	03/13/14	DD	SW8270

Project ID: 126-3
Client ID: MW-2

Phoenix I.D.: BG17210

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
1,4-Dichlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
2,4,5-Trichlorophenol	ND	20	ug/L	03/13/14	DD	SW8270
2,4,6-Trichlorophenol	ND	20	ug/L	03/13/14	DD	SW8270
2,4-Dichlorophenol	ND	20	ug/L	03/13/14	DD	SW8270
2,4-Dimethylphenol	ND	20	ug/L	03/13/14	DD	SW8270
2,4-Dinitrophenol	ND	100	ug/L	03/13/14	DD	SW8270
2,4-Dinitrotoluene	ND	20	ug/L	03/13/14	DD	SW8270
2,6-Dinitrotoluene	ND	20	ug/L	03/13/14	DD	SW8270
2-Chloronaphthalene	ND	20	ug/L	03/13/14	DD	SW8270
2-Chlorophenol	ND	20	ug/L	03/13/14	DD	SW8270
2-Methylnaphthalene	ND	20	ug/L	03/13/14	DD	SW8270
2-Methylphenol (o-cresol)	ND	20	ug/L	03/13/14	DD	SW8270
2-Nitroaniline	ND	100	ug/L	03/13/14	DD	SW8270
2-Nitrophenol	ND	20	ug/L	03/13/14	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	20	ug/L	03/13/14	DD	SW8270
3,3'-Dichlorobenzidine	ND	40	ug/L	03/13/14	DD	SW8270
3-Nitroaniline	ND	100	ug/L	03/13/14	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	100	ug/L	03/13/14	DD	SW8270
4-Bromophenyl phenyl ether	ND	20	ug/L	03/13/14	DD	SW8270
4-Chloro-3-methylphenol	ND	40	ug/L	03/13/14	DD	SW8270
4-Chloroaniline	ND	40	ug/L	03/13/14	DD	SW8270
4-Chlorophenyl phenyl ether	ND	20	ug/L	03/13/14	DD	SW8270
4-Nitroaniline	ND	100	ug/L	03/13/14	DD	SW8270
4-Nitrophenol	ND	100	ug/L	03/13/14	DD	SW8270
Acenaphthene	ND	20	ug/L	03/13/14	DD	SW8270
Acenaphthylene	ND	20	ug/L	03/13/14	DD	SW8270
Acetophenone	ND	20	ug/L	03/13/14	DD	SW8270
Aniline	ND	100	ug/L	03/13/14	DD	SW8270
Anthracene	ND	20	ug/L	03/13/14	DD	SW8270
Benz(a)anthracene	ND	20	ug/L	03/13/14	DD	SW8270
Benzidine	ND	40	ug/L	03/13/14	DD	SW8270
Benzo(a)pyrene	ND	20	ug/L	03/13/14	DD	SW8270
Benzo(b)fluoranthene	ND	20	ug/L	03/13/14	DD	SW8270
Benzo(ghi)perylene	ND	20	ug/L	03/13/14	DD	SW8270
Benzo(k)fluoranthene	ND	20	ug/L	03/13/14	DD	SW8270
Benzoic acid	ND	100	ug/L	03/13/14	DD	SW8270
Benzyl butyl phthalate	ND	20	ug/L	03/13/14	DD	SW8270
Bis(2-chloroethoxy)methane	ND	20	ug/L	03/13/14	DD	SW8270
Bis(2-chloroethyl)ether	ND	20	ug/L	03/13/14	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	20	ug/L	03/13/14	DD	SW8270
Bis(2-ethylhexyl)phthalate	ND	20	ug/L	03/13/14	DD	SW8270
Carbazole	ND	100	ug/L	03/13/14	DD	SW8270
Chrysene	ND	20	ug/L	03/13/14	DD	SW8270
Dibenz(a,h)anthracene	ND	20	ug/L	03/13/14	DD	SW8270
Dibenzofuran	ND	20	ug/L	03/13/14	DD	SW8270
Diethyl phthalate	ND	20	ug/L	03/13/14	DD	SW8270
Dimethylphthalate	ND	20	ug/L	03/13/14	DD	SW8270
Di-n-butylphthalate	ND	20	ug/L	03/13/14	DD	SW8270

Project ID: 126-3
Client ID: MW-2

Phoenix I.D.: BG17210

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Di-n-octylphthalate	ND	20	ug/L	03/13/14	DD	SW8270
Fluoranthene	ND	20	ug/L	03/13/14	DD	SW8270
Fluorene	ND	20	ug/L	03/13/14	DD	SW8270
Hexachlorobenzene	ND	20	ug/L	03/13/14	DD	SW8270
Hexachlorobutadiene	ND	20	ug/L	03/13/14	DD	SW8270
Hexachlorocyclopentadiene	ND	20	ug/L	03/13/14	DD	SW8270
Hexachloroethane	ND	20	ug/L	03/13/14	DD	SW8270
Indeno(1,2,3-cd)pyrene	ND	20	ug/L	03/13/14	DD	SW8270
Isophorone	ND	20	ug/L	03/13/14	DD	SW8270
Naphthalene	ND	20	ug/L	03/13/14	DD	SW8270
Nitrobenzene	ND	20	ug/L	03/13/14	DD	SW8270
N-Nitrosodimethylamine	ND	20	ug/L	03/13/14	DD	SW8270
N-Nitrosodi-n-propylamine	ND	20	ug/L	03/13/14	DD	SW8270
N-Nitrosodiphenylamine	ND	20	ug/L	03/13/14	DD	SW8270
Pentachloronitrobenzene	ND	20	ug/L	03/13/14	DD	SW8270
Pentachlorophenol	ND	20	ug/L	03/13/14	DD	SW8270
Phenanthrene	ND	20	ug/L	03/13/14	DD	SW8270
Phenol	ND	20	ug/L	03/13/14	DD	SW8270
Pyrene	ND	20	ug/L	03/13/14	DD	SW8270
Pyridine	ND	20	ug/L	03/13/14	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	*Diluted Out		%	03/13/14	DD	15 - 110 %
% 2-Fluorobiphenyl	*Diluted Out		%	03/13/14	DD	30 - 130 %
% 2-Fluorophenol	*Diluted Out		%	03/13/14	DD	15 - 110 %
% Nitrobenzene-d5	*Diluted Out		%	03/13/14	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	03/13/14	DD	15 - 110 %
% Terphenyl-d14	*Diluted Out		%	03/13/14	DD	30 - 130 %

Project ID: 126-3
Client ID: MW-2

Phoenix I.D.: BG17210

Parameter	Result	RL/ PQL	Units	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.
3 = This parameter exceeds laboratory specified limits.
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

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.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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.

Surrogate recoveries were outside control limits for volatiles. Sample was analyzed twice with similar results indicating matrix interference.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
March 21, 2014
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	RK	03/06/14	14:15
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17211

Project ID: 126-3
Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	03/13/14	MH	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Hexanone	ND	5.0	ug/L	03/13/14	MH	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	03/13/14	MH	SW8260	

Project ID: 126-3
Client ID: FIELD BLANK

Phoenix I.D.: BG17211

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Acetone	ND	25	ug/L	03/13/14	MH	SW8260	
Acrylonitrile	ND	5.0	ug/L	03/13/14	MH	SW8260	
Benzene	ND	0.70	ug/L	03/13/14	MH	SW8260	
Bromobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromochloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromodichloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
Bromoform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Carbon Disulfide	ND	5.0	ug/L	03/13/14	MH	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloroform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Dibromochloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
Dibromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Ethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Isopropylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
m&p-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	03/13/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	03/13/14	MH	SW8260	
Methylene chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Naphthalene	ND	1.0	ug/L	03/13/14	MH	SW8260	
n-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
n-Propylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
o-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Styrene	ND	1.0	ug/L	03/13/14	MH	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/13/14	MH	SW8260	1
Toluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Total Xylenes	ND	2.0	ug/L	03/13/14	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/13/14	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	03/13/14	MH	70 - 130 %	
% Bromofluorobenzene	100		%	03/13/14	MH	70 - 130 %	
% Dibromofluoromethane	99		%	03/13/14	MH	70 - 130 %	

Project ID: 126-3

Client ID: FIELD BLANK

Phoenix I.D.: BG17211

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	102		%	03/13/14	MH	70 - 130 %

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

March 21, 2014

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	RK	03/06/14	0:00
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17212

Project ID: 126-3
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	03/13/14	MH	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
2-Hexanone	ND	5.0	ug/L	03/13/14	MH	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	03/13/14	MH	SW8260	

Project ID: 126-3
Client ID: TRIP BLANK

Phoenix I.D.: BG17212

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Acetone	ND	25	ug/L	03/13/14	MH	SW8260	
Acrylonitrile	ND	5.0	ug/L	03/13/14	MH	SW8260	
Benzene	ND	0.70	ug/L	03/13/14	MH	SW8260	
Bromobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromochloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromodichloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
Bromoform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Bromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Carbon Disulfide	ND	5.0	ug/L	03/13/14	MH	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chlorobenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloroform	ND	1.0	ug/L	03/13/14	MH	SW8260	
Chloromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Dibromochloromethane	ND	0.50	ug/L	03/13/14	MH	SW8260	
Dibromomethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Ethylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	03/13/14	MH	SW8260	
Isopropylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
m&p-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	03/13/14	MH	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	03/13/14	MH	SW8260	
Methylene chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
Naphthalene	ND	1.0	ug/L	03/13/14	MH	SW8260	
n-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
n-Propylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
o-Xylene	ND	1.0	ug/L	03/13/14	MH	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Styrene	ND	1.0	ug/L	03/13/14	MH	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/13/14	MH	SW8260	1
Toluene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Total Xylenes	ND	2.0	ug/L	03/13/14	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	03/13/14	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/13/14	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	03/13/14	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	03/13/14	MH	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	03/13/14	MH	70 - 130 %	
% Bromofluorobenzene	100		%	03/13/14	MH	70 - 130 %	
% Dibromofluoromethane	101		%	03/13/14	MH	70 - 130 %	

Project ID: 126-3

Client ID: TRIP BLANK

Phoenix I.D.: BG17212

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	101		%	03/13/14	MH	70 - 130 %

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:

TRIP BLANK INCLUDED.

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

March 21, 2014

Reviewed and Released by: Phyllis Shiller, Laboratory 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

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	0:00
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17213

Project ID: 126-3
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	03/06/14		E160.3
Field Extraction	Completed			03/06/14		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	03/11/14	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	03/11/14	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	03/11/14	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	03/11/14	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	03/11/14	JLI	SW8260 1

Project ID: 126-3
Client ID: TRIP BLANK HL

Phoenix I.D.: BG17213

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Chlorotoluene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	1300	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	5000	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	500	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	3000	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	500	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
o-Xylene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	500	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	250	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	250	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	250	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	

Project ID: 126-3

Client ID: TRIP BLANK HL

Phoenix I.D.: BG17213

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Bromofluorobenzene	93		%	03/11/14	JLI	70 - 130 %
% Dibromofluoromethane	103		%	03/11/14	JLI	70 - 130 %
% Toluene-d8	101		%	03/11/14	JLI	70 - 130 %

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:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

March 21, 2014

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 21, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	RK	03/06/14	0:00
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	126-3				

Laboratory Data

SDG ID: GBG17199
Phoenix ID: BG17214

Project ID: 126-3
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	03/06/14		E160.3
Field Extraction	Completed			03/06/14		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	03/11/14	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	03/11/14	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260 1

Project ID: 126-3
Client ID: TRIP BLANK LL

Phoenix I.D.: BG17214

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Chlorotoluene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
4-Methyl-2-pentanone	ND	25	ug/Kg	03/11/14	JLI	SW8260	
Acetone	ND	30	ug/Kg	03/11/14	JLI	SW8260	
Acrylonitrile	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Benzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Bromobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Bromochloromethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Bromoform	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Bromomethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Chloroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Chloroform	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Chloromethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Dibromochloromethane	ND	3.0	ug/Kg	03/11/14	JLI	SW8260	
Dibromomethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Hexachlorobutadiene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Methyl Ethyl Ketone	ND	30	ug/Kg	03/11/14	JLI	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/11/14	JLI	SW8260	
Methylene chloride	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Naphthalene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
n-Butylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
n-Propylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
o-Xylene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
p-Isopropyltoluene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
sec-Butylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Styrene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
tert-Butylbenzene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/11/14	JLI	SW8260	1
Toluene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Total Xylenes	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/11/14	JLI	SW8260	
Trichloroethene	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	03/11/14	JLI	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	03/11/14	JLI	70 - 130 %	

Project ID: 126-3

Client ID: TRIP BLANK LL

Phoenix I.D.: BG17214

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Bromofluorobenzene	96		%	03/11/14	JLI	70 - 130 %
% Dibromofluoromethane	98		%	03/11/14	JLI	70 - 130 %
% Toluene-d8	99		%	03/11/14	JLI	70 - 130 %

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:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

March 21, 2014

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

March 21, 2014

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 268230, QC Sample No: BG16164 (BG17209, BG17210)												
Thallium - Water	BRL	<0.002	<0.002	NC	90.6	88.4	2.5	97.3	93.4	4.1	75 - 125	20
QA/QC Batch 268470, QC Sample No: BG16904 (BG17209, BG17210)												
ICP Metals - Aqueous												
Aluminum	BRL	<0.010	<0.010	NC	103	104	1.0	102	101	1.0	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	99.2	99.1	0.1	98.4	105	6.5	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	96.2	93.6	2.7	93.9	101	7.3	75 - 125	20
Barium	BRL	<0.002	<0.002	NC	111	112	0.9	110	110	0.0	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	107	107	0.0	104	106	1.9	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	103	100	3.0	99.4	106	6.4	75 - 125	20
Calcium	BRL	0.017	<0.010	NC	107	109	1.9	105	107	1.9	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	98.6	96.8	1.8	94.6	102	7.5	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	103	102	1.0	99.4	107	7.4	75 - 125	20
Copper	BRL	<0.001	<0.005	NC	106	109	2.8	106	105	0.9	75 - 125	20
Iron	BRL	<0.010	<0.010	NC	101	99.0	2.0	96.8	105	8.1	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	99.1	97.1	2.0	94.8	102	7.3	75 - 125	20
Magnesium	BRL	<0.01	<0.01	NC	102	98.6	3.4	97.8	104	6.1	75 - 125	20
Manganese	BRL	<0.001	<0.001	NC	101	98.1	2.9	98.0	104	5.9	75 - 125	20
Nickel	BRL	<0.001	<0.001	NC	99.7	98.1	1.6	96.3	103	6.7	75 - 125	20
Potassium	BRL	<0.1	<0.1	NC	107	118	9.8	113	104	8.3	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	96.7	96.1	0.6	94.8	102	7.3	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	104	103	1.0	101	103	2.0	75 - 125	20
Sodium	BRL	<0.1	<0.1	NC	99.6	108	8.1	104	97.2	6.8	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	107	108	0.9	106	106	0.0	75 - 125	20
Zinc	BRL	<0.002	<0.002	NC	103	100	3.0	98.8	106	7.0	75 - 125	20
QA/QC Batch 268241, QC Sample No: BG16968 (BG17209, BG17210)												
ICP Metals - Dissolved												
Aluminum	BRL	<0.01	<0.01	NC	95.9	95.3	0.6	96.5	95.8	0.7	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	102	102	0.0	94.9	96.2	1.4	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	89.9	90.0	0.1	87.9	87.0	1.0	75 - 125	20
Barium	BRL	0.035	0.035	0	101	101	0.0	96.9	95.6	1.4	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	98.6	98.1	0.5	93.2	91.8	1.5	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	94.6	94.0	0.6	86.7	86.2	0.6	75 - 125	20
Calcium	BRL	115	115	0	98.8	98.3	0.5	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	96.0	95.6	0.4	89.0	88.8	0.2	75 - 125	20
Cobalt	BRL	0.001	0.001	NC	100	99.7	0.3	92.1	91.3	0.9	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	99.7	99.4	0.3	96.1	95.4	0.7	75 - 125	20
Iron	BRL	0.221	0.221	0	101	101	0.0	92.7	91.9	0.9	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	94.5	94.4	0.1	88.4	87.5	1.0	75 - 125	20
Magnesium	BRL	16.1	16.1	0	105	105	0.0	NC	NC	NC	75 - 125	20
Manganese	BRL	0.873	0.874	0.10	98.3	98.4	0.1	89.2	88.2	1.1	75 - 125	20
Nickel	BRL	0.001	0.002	NC	101	100	1.0	92.0	91.0	1.1	75 - 125	20

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Potassium	BRL	13.4	13.3	0.70	106	107	0.9	108	106	1.9	75 - 125	20	
Selenium	BRL	<0.011	<0.011	NC	85.5	86.7	1.4	83.8	83.4	0.5	75 - 125	20	
Silver	BRL	0.001	<0.001	NC	93.8	93.3	0.5	78.7	78.3	0.5	75 - 125	20	
Sodium	0.14	148	147	0.70	109	110	0.9	NC	NC	NC	75 - 125	20	
Vanadium	BRL	<0.002	<0.002	NC	96.7	96.0	0.7	90.9	90.4	0.6	75 - 125	20	
Zinc	BRL	0.003	0.003	NC	91.4	91.2	0.2	87.5	87.1	0.5	75 - 125	20	
QA/QC Batch 268361, QC Sample No: BG16968 (BG17209, BG17210)													
Thallium (Dissolved)	BRL	<0.002	<0.002	NC	104	100	3.9	90.1	91.2	1.2	75 - 125	20	
QA/QC Batch 268496, QC Sample No: BG17143 (BG17199, BG17200, BG17201, BG17202, BG17203, BG17204, BG17205, BG17206, BG17207, BG17208)													
Mercury - Soil	BRL	<0.08	<0.09	NC	99.2	96.7	2.6	108	104	3.8	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 268457, QC Sample No: BG17147 (BG17199, BG17200, BG17201, BG17202, BG17203, BG17204, BG17205, BG17206, BG17207, BG17208)													
ICP Metals - Soil													
Aluminum	BRL	5520	8180	38.8	101	88.4	13.3	NC	NC	NC	75 - 125	30	r
Antimony	BRL	<3.9	<4.2	NC	84.1	81.4	3.3	85.2	89.1	4.5	75 - 125	30	
Arsenic	BRL	2.6	3.55	NC	104	94.3	9.8	92.7	92.9	0.2	75 - 125	30	
Barium	BRL	67.0	84.6	23.2	112	97.3	14.0	111	110	0.9	75 - 125	30	
Beryllium	BRL	0.36	0.41	NC	106	96.3	9.6	98.6	98.7	0.1	75 - 125	30	
Cadmium	BRL	0.59	0.61	NC	104	94.8	9.3	95.0	95.3	0.3	75 - 125	30	
Calcium	BRL	6830	7500	9.40	113	101	11.2	NC	NC	NC	75 - 125	30	
Chromium	BRL	14.4	20.2	33.5	106	95.5	10.4	109	103	5.7	75 - 125	30	r
Cobalt	BRL	4.74	5.43	13.6	104	94.8	9.3	96.1	96.0	0.1	75 - 125	30	
Copper	0.65	84.3	83.1	1.40	101	91.4	10.0	99.2	93.1	6.3	75 - 125	30	
Iron	BRL	13100	19000	36.8	112	98.0	13.3	NC	NC	NC	75 - 125	30	r
Lead	BRL	121	104	15.1	105	96.3	8.6	84.0	102	19.4	75 - 125	30	
Magnesium	BRL	2290	3790	49.3	103	91.9	11.4	NC	NC	NC	75 - 125	30	r
Manganese	BRL	199	192	3.60	105	96.7	8.2	97.0	102	5.0	75 - 125	30	
Nickel	BRL	9.71	13.7	34.1	105	95.6	9.4	98.4	97.8	0.6	75 - 125	30	r
Potassium	6.7	1150	1770	42.5	99.2	88.8	11.1	>130	>130	NC	75 - 125	30	m,r
Selenium	BRL	<1.6	<1.7	NC	98.4	92.4	6.3	81.6	82.5	1.1	75 - 125	30	
Silver	BRL	<0.39	<0.42	NC	101	90.3	11.2	98.1	97.9	0.2	75 - 125	30	
Sodium	BRL	1010	1470	37.1	95.1	86.8	9.1	NC	NC	NC	75 - 125	30	r
Thallium	BRL	<3.5	<3.8	NC	107	94.4	12.5	94.7	95.2	0.5	75 - 125	30	
Vanadium	BRL	22.3	37.2	50.1	104	94.2	9.9	105	100	4.9	75 - 125	30	r
Zinc	BRL	102	115	12.0	104	93.9	10.2	83.4	87.1	4.3	75 - 125	30	
QA/QC Batch 268497, QC Sample No: BG17254 (BG17209, BG17210)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	107	103	3.8	106	100	5.8	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

March 21, 2014

QA/QC Data

SDG I.D.: GBG17199

QA/QC Batch 268447, QC Sample No: BG16983 (BG17199, BG17200, BG17201, BG17202, BG17203, BG17204, BG17205, BG17206, BG17207, BG17208)

Semivolatiles - Solid

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	64	65	1.6	71	70	1.4	30 - 130	30	
1,2,4-Trichlorobenzene	ND	64	64	0.0	70	70	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	63	62	1.6	67	67	0.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	68	69	1.5	76	76	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	62	62	0.0	66	66	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	62	62	0.0	66	66	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	67	69	2.9	80	78	2.5	30 - 130	30	
2,4,6-Trichlorophenol	ND	66	66	0.0	84	81	3.6	30 - 130	30	
2,4-Dichlorophenol	ND	71	72	1.4	81	80	1.2	30 - 130	30	
2,4-Dimethylphenol	ND	44	45	2.2	51	50	2.0	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	66	68	3.0	77	75	2.6	30 - 130	30	
2,6-Dinitrotoluene	ND	67	69	2.9	76	76	0.0	30 - 130	30	
2-Chloronaphthalene	ND	73	72	1.4	80	79	1.3	30 - 130	30	
2-Chlorophenol	ND	67	68	1.5	74	73	1.4	30 - 130	30	
2-Methylnaphthalene	ND	66	67	1.5	73	73	0.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	63	64	1.6	70	69	1.4	30 - 130	30	
2-Nitroaniline	ND	138	145	4.9	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	57	58	1.7	73	75	2.7	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	65	68	4.5	74	72	2.7	30 - 130	30	
3,3'-Dichlorobenzidine	ND	103	107	3.8	100	96	4.1	30 - 130	30	
3-Nitroaniline	ND	92	94	2.2	97	96	1.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	13	14	7.4	56	53	5.5	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	71	70	1.4	80	79	1.3	30 - 130	30	
4-Chloro-3-methylphenol	ND	69	72	4.3	80	78	2.5	30 - 130	30	
4-Chloroaniline	ND	59	59	0.0	56	56	0.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	68	68	0.0	76	75	1.3	30 - 130	30	
4-Nitroaniline	ND	71	74	4.1	82	81	1.2	30 - 130	30	
4-Nitrophenol	ND	57	59	3.4	68	66	3.0	30 - 130	30	
Acenaphthene	ND	68	67	1.5	75	75	0.0	30 - 130	30	
Acenaphthylene	ND	68	68	0.0	75	75	0.0	30 - 130	30	
Acetophenone	ND	71	74	4.1	79	78	1.3	30 - 130	30	
Aniline	ND	80	82	2.5	79	77	2.6	30 - 130	30	
Anthracene	ND	69	69	0.0	77	77	0.0	30 - 130	30	
Benz(a)anthracene	ND	67	67	0.0	74	75	1.3	30 - 130	30	
Benzidine	ND	90	79	13.0	54	63	15.4	30 - 130	30	
Benzo(a)pyrene	ND	65	65	0.0	73	73	0.0	30 - 130	30	
Benzo(b)fluoranthene	ND	74	72	2.7	88	84	4.7	30 - 130	30	
Benzo(ghi)perylene	ND	58	60	3.4	64	67	4.6	30 - 130	30	
Benzo(k)fluoranthene	ND	76	74	2.7	80	86	7.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzyl butyl phthalate	ND	63	61	3.2	69	71	2.9	30 - 130	30
Bis(2-chloroethoxy)methane	ND	68	68	0.0	74	74	0.0	30 - 130	30
Bis(2-chloroethyl)ether	ND	60	60	0.0	65	65	0.0	30 - 130	30
Bis(2-chloroisopropyl)ether	ND	65	66	1.5	71	70	1.4	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	69	68	1.5	77	78	1.3	30 - 130	30
Carbazole	ND	87	86	1.2	95	97	2.1	30 - 130	30
Chrysene	ND	72	73	1.4	80	79	1.3	30 - 130	30
Dibenz(a,h)anthracene	ND	61	63	3.2	68	69	1.5	30 - 130	30
Dibenzofuran	ND	68	69	1.5	76	76	0.0	30 - 130	30
Diethyl phthalate	ND	66	67	1.5	74	74	0.0	30 - 130	30
Dimethylphthalate	ND	67	68	1.5	75	75	0.0	30 - 130	30
Di-n-butylphthalate	ND	70	67	4.4	75	77	2.6	30 - 130	30
Di-n-octylphthalate	ND	77	79	2.6	85	82	3.6	30 - 130	30
Fluoranthene	ND	70	64	9.0	72	79	9.3	30 - 130	30
Fluorene	ND	68	69	1.5	76	76	0.0	30 - 130	30
Hexachlorobenzene	ND	69	68	1.5	78	80	2.5	30 - 130	30
Hexachlorobutadiene	ND	64	64	0.0	70	71	1.4	30 - 130	30
Hexachlorocyclopentadiene	ND	42	47	11.2	53	48	9.9	30 - 130	30
Hexachloroethane	ND	61	62	1.6	66	66	0.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	61	62	1.6	66	69	4.4	30 - 130	30
Isophorone	ND	71	72	1.4	79	79	0.0	30 - 130	30
Naphthalene	ND	67	66	1.5	73	73	0.0	30 - 130	30
Nitrobenzene	ND	64	66	3.1	71	70	1.4	30 - 130	30
N-Nitrosodimethylamine	ND	63	63	0.0	64	63	1.6	30 - 130	30
N-Nitrosodi-n-propylamine	ND	65	68	4.5	73	71	2.8	30 - 130	30
N-Nitrosodiphenylamine	ND	77	79	2.6	87	87	0.0	30 - 130	30
Pentachloronitrobenzene	ND	68	67	1.5	76	77	1.3	30 - 130	30
Pentachlorophenol	ND	14	15	6.9	46	46	0.0	30 - 130	30
Phenanthrene	ND	70	70	0.0	78	78	0.0	30 - 130	30
Phenol	ND	70	72	2.8	79	77	2.6	30 - 130	30
Pyrene	ND	72	64	11.8	73	83	12.8	30 - 130	30
Pyridine	ND	58	58	0.0	57	57	0.0	30 - 130	30
% 2,4,6-Tribromophenol	53	66	67	1.5	81	83	2.4	30 - 130	30
% 2-Fluorobiphenyl	65	69	68	1.5	75	75	0.0	30 - 130	30
% 2-Fluorophenol	64	65	66	1.5	73	72	1.4	30 - 130	30
% Nitrobenzene-d5	62	64	66	3.1	70	69	1.4	30 - 130	30
% Phenol-d5	66	67	69	2.9	74	73	1.4	30 - 130	30
% Terphenyl-d14	59	81	70	14.6	79	92	15.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 268484, QC Sample No: BG17193 (BG17209, BG17210)

Pesticides - Ground Water

4,4' -DDD	ND	88	88	0.0				40 - 140	20
4,4' -DDE	ND	82	84	2.4				40 - 140	20
4,4' -DDT	ND	86	84	2.4				40 - 140	20
a-BHC	ND	69	71	2.9				40 - 140	20
a-Chlordane	ND	79	80	1.3				40 - 140	20
Alachlor	ND	NA	NA	NC				40 - 140	20
Aldrin	ND	72	74	2.7				40 - 140	20
b-BHC	ND	77	78	1.3				40 - 140	20
Chlordane	ND	NA	NA	NC				40 - 140	20

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
d-BHC	ND	<40	<40	NC				40 - 140	20
Dieldrin	ND	81	83	2.4				40 - 140	20
Endosulfan I	ND	80	82	2.5				40 - 140	20
Endosulfan II	ND	84	84	0.0				40 - 140	20
Endosulfan sulfate	ND	62	61	1.6				40 - 140	20
Endrin	ND	85	87	2.3				40 - 140	20
Endrin aldehyde	ND	94	95	1.1				40 - 140	20
Endrin ketone	ND	89	89	0.0				40 - 140	20
g-BHC	ND	68	70	2.9				40 - 140	20
g-Chlordane	ND	80	81	1.2				40 - 140	20
Heptachlor	ND	78	80	2.5				40 - 140	20
Heptachlor epoxide	ND	78	80	2.5				40 - 140	20
Methoxychlor	ND	101	100	1.0				40 - 140	20
Toxaphene	ND	NA	NA	NC				40 - 140	20
% DCBP	88	95	95	0.0				30 - 150	20
% TCMX	68	85	85	0.0				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 268483, QC Sample No: BG17193 (BG17209, BG17210)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	84	82	2.4				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	79	82	3.7				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	84	97	94	3.1				30 - 150	20
% TCMX (Surrogate Rec)	67	82	80	2.5				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 268462, QC Sample No: BG17193 (BG17209, BG17210)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	73	72	1.4				30 - 130	20
1,2,4-Trichlorobenzene	ND	67	66	1.5				30 - 130	20
1,2-Dichlorobenzene	ND	65	65	0.0				30 - 130	20
1,2-Diphenylhydrazine	ND	76	76	0.0				30 - 130	20
1,3-Dichlorobenzene	ND	64	64	0.0				30 - 130	20
1,4-Dichlorobenzene	ND	65	65	0.0				30 - 130	20
2,4,5-Trichlorophenol	ND	85	84	1.2				30 - 130	20
2,4,6-Trichlorophenol	ND	82	81	1.2				30 - 130	20
2,4-Dichlorophenol	ND	75	74	1.3				30 - 130	20
2,4-Dimethylphenol	ND	46	45	2.2				30 - 130	20
2,4-Dinitrophenol	ND	138	135	2.2				30 - 130	20
2,4-Dinitrotoluene	ND	86	85	1.2				30 - 130	20
2,6-Dinitrotoluene	ND	83	82	1.2				30 - 130	20
2-Chloronaphthalene	ND	74	74	0.0				30 - 130	20
2-Chlorophenol	ND	66	67	1.5				30 - 130	20
2-Methylnaphthalene	ND	72	70	2.8				30 - 130	20

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Methylphenol (o-cresol)	ND	60	60	0.0				30 - 130	20
2-Nitroaniline	ND	116	110	5.3				30 - 130	20
2-Nitrophenol	ND	87	86	1.2				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	66	66	0.0				30 - 130	20
3,3'-Dichlorobenzidine	ND	116	112	3.5				30 - 130	20
3-Nitroaniline	ND	107	105	1.9				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	136	135	0.7				30 - 130	20
4-Bromophenyl phenyl ether	ND	77	78	1.3				30 - 130	20
4-Chloro-3-methylphenol	ND	78	76	2.6				30 - 130	20
4-Chloroaniline	ND	52	51	1.9				30 - 130	20
4-Chlorophenyl phenyl ether	ND	74	74	0.0				30 - 130	20
4-Nitroaniline	ND	83	83	0.0				30 - 130	20
4-Nitrophenol	ND	99	95	4.1				15 - 130	20
Acenaphthene	ND	76	75	1.3				30 - 130	20
Acenaphthylene	ND	71	71	0.0				30 - 130	20
Acetophenone	ND	76	76	0.0				30 - 130	20
Aniline	ND	74	75	1.3				30 - 130	20
Anthracene	ND	72	72	0.0				30 - 130	20
Benz(a)anthracene	ND	73	73	0.0				30 - 130	20
Benzidine	ND	31	29	6.7				30 - 130	20
Benzo(a)pyrene	ND	66	66	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	77	76	1.3				30 - 130	20
Benzo(ghi)perylene	ND	76	78	2.6				30 - 130	20
Benzo(k)fluoranthene	ND	73	74	1.4				30 - 130	20
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20
Benzyl butyl phthalate	ND	72	75	4.1				30 - 130	20
Bis(2-chloroethoxy)methane	ND	71	71	0.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	66	66	0.0				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	69	69	0.0				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	73	75	2.7				30 - 130	20
Carbazole	ND	78	76	2.6				30 - 130	20
Chrysene	ND	73	73	0.0				30 - 130	20
Dibenz(a,h)anthracene	ND	76	77	1.3				30 - 130	20
Dibenzofuran	ND	73	72	1.4				30 - 130	20
Diethyl phthalate	ND	73	73	0.0				30 - 130	20
Dimethylphthalate	ND	73	73	0.0				30 - 130	20
Di-n-butylphthalate	ND	73	74	1.4				30 - 130	20
Di-n-octylphthalate	ND	71	72	1.4				30 - 130	20
Fluoranthene	ND	76	75	1.3				30 - 130	20
Fluorene	ND	73	74	1.4				30 - 130	20
Hexachlorobenzene	ND	71	72	1.4				30 - 130	20
Hexachlorobutadiene	ND	68	69	1.5				30 - 130	20
Hexachlorocyclopentadiene	ND	56	55	1.8				30 - 130	20
Hexachloroethane	ND	67	66	1.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	75	77	2.6				30 - 130	20
Isophorone	ND	75	75	0.0				30 - 130	20
Naphthalene	ND	70	69	1.4				30 - 130	20
Nitrobenzene	ND	76	76	0.0				30 - 130	20
N-Nitrosodimethylamine	ND	55	55	0.0				30 - 130	20
N-Nitrosodi-n-propylamine	ND	73	72	1.4				30 - 130	20
N-Nitrosodiphenylamine	ND	85	84	1.2				30 - 130	20
Pentachloronitrobenzene	ND	82	85	3.6				30 - 130	20
Pentachlorophenol	ND	94	96	2.1				30 - 130	20

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	74	74	0.0				30 - 130	20
Phenol	ND	55	56	1.8				15 - 130	20
Pyrene	ND	77	76	1.3				30 - 130	20
Pyridine	ND	40	42	4.9				30 - 130	20
% 2,4,6-Tribromophenol	77	87	87	0.0				15 - 110	20
% 2-Fluorobiphenyl	71	70	70	0.0				30 - 130	20
% 2-Fluorophenol	62	53	53	0.0				15 - 110	20
% Nitrobenzene-d5	81	79	80	1.3				30 - 130	20
% Phenol-d5	61	55	56	1.8				15 - 110	20
% Terphenyl-d14	81	80	79	1.3				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 268460, QC Sample No: BG17203 (BG17199, BG17200, BG17201, BG17202, BG17203, BG17204, BG17205, BG17206, BG17207, BG17208)

Pesticides - Solid

4,4' -DDD	ND	109			135	128	5.3	40 - 140	30
4,4' -DDE	ND	108			134	134	0.0	40 - 140	30
4,4' -DDT	ND	107			111	129	15.0	40 - 140	30
a-BHC	ND	70			94	95	1.1	40 - 140	30
a-Chlordane	ND	88			100	104	3.9	40 - 140	30
Alachlor	ND	NA			NA	NA	NC	40 - 140	30
Aldrin	ND	84			96	95	1.0	40 - 140	30
b-BHC	ND	82			96	99	3.1	40 - 140	30
Chlordane	ND	NA			NA	NA	NC	40 - 140	30
d-BHC	ND	70			91	87	4.5	40 - 140	30
Dieldrin	ND	92			107	110	2.8	40 - 140	30
Endosulfan I	ND	84			103	107	3.8	40 - 140	30
Endosulfan II	ND	50			110	113	2.7	40 - 140	30
Endosulfan sulfate	ND	65			95	93	2.1	40 - 140	30
Endrin	ND	90			103	106	2.9	40 - 140	30
Endrin aldehyde	ND	67			113	117	3.5	40 - 140	30
Endrin ketone	ND	82			100	108	7.7	40 - 140	30
g-BHC	ND	84			120	112	6.9	40 - 140	30
g-Chlordane	ND	87			99	103	4.0	40 - 140	30
Heptachlor	ND	82			97	99	2.0	40 - 140	30
Heptachlor epoxide	ND	86			98	101	3.0	40 - 140	30
Methoxychlor	ND	102			98	116	16.8	40 - 140	30
Toxaphene	ND	NA			NA	NA	NC	40 - 140	30
% DCBP	101	95			95	105	10.0	30 - 150	30
% TCMX	90	84			83	91	9.2	30 - 150	30

Comment:

A LCSD is not reported for this batch.

QA/QC Batch 268458, QC Sample No: BG17203 (BG17199, BG17200, BG17201, BG17202, BG17203, BG17204, BG17205, BG17206, BG17207, BG17208)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	89	82	8.2	93	86	7.8	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1260	ND	92	86	6.7	93	92	1.1	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	85	84	77	8.7	85	83	2.4	30 - 150	30	
% TCMX (Surrogate Rec)	95	98	89	9.6	95	89	6.5	30 - 150	30	

QA/QC Batch 268858, QC Sample No: BG17211 (BG17209, BG17210, BG17211, BG17212)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	101	101	0.0	96	97	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	91	90	1.1	84	87	3.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	90	88	2.2	92	92	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	103	99	4.0	99	96	3.1	70 - 130	30	
1,1-Dichloroethane	ND	90	88	2.2	107	85	22.9	70 - 130	30	
1,1-Dichloroethene	ND	131	106	21.1	137	95	36.2	70 - 130	30	l,m,r
1,1-Dichloropropene	ND	88	87	1.1	83	85	2.4	70 - 130	30	
1,2,3-Trichlorobenzene	ND	109	106	2.8	102	102	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	91	90	1.1	89	89	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	107	105	1.9	100	102	2.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	98	99	1.0	91	92	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	108	102	5.7	99	105	5.9	70 - 130	30	
1,2-Dibromoethane	ND	101	96	5.1	97	97	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	98	98	0.0	97	98	1.0	70 - 130	30	
1,2-Dichloroethane	ND	93	90	3.3	94	91	3.2	70 - 130	30	
1,2-Dichloropropane	ND	94	93	1.1	93	90	3.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	93	94	1.1	90	90	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	96	97	1.0	94	93	1.1	70 - 130	30	
1,3-Dichloropropane	ND	96	97	1.0	97	94	3.1	70 - 130	30	
1,4-Dichlorobenzene	ND	96	97	1.0	92	93	1.1	70 - 130	30	
2,2-Dichloropropane	ND	89	89	0.0	65	65	0.0	70 - 130	30	m
2-Chlorotoluene	ND	94	92	2.2	93	90	3.3	70 - 130	30	
2-Hexanone	ND	101	104	2.9	94	96	2.1	70 - 130	30	
2-Isopropyltoluene	ND	98	101	3.0	91	92	1.1	70 - 130	30	
4-Chlorotoluene	ND	96	95	1.0	91	91	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	104	101	2.9	93	94	1.1	70 - 130	30	
Acetone	ND	108	94	13.9	141	79	56.4	70 - 130	30	m,r
Acrylonitrile	ND	95	93	2.1	104	87	17.8	70 - 130	30	
Benzene	ND	90	88	2.2	89	89	0.0	70 - 130	30	
Bromobenzene	ND	94	94	0.0	95	93	2.1	70 - 130	30	
Bromochloromethane	ND	94	93	1.1	93	92	1.1	70 - 130	30	
Bromodichloromethane	ND	96	94	2.1	97	94	3.1	70 - 130	30	
Bromoform	ND	103	104	1.0	102	103	1.0	70 - 130	30	
Bromomethane	ND	105	118	11.7	51	82	46.6	70 - 130	30	m,r
Carbon Disulfide	ND	119	99	18.3	131	86	41.5	70 - 130	30	m,r
Carbon tetrachloride	ND	88	87	1.1	84	85	1.2	70 - 130	30	
Chlorobenzene	ND	96	97	1.0	94	94	0.0	70 - 130	30	
Chloroethane	ND	95	120	23.3	98	104	5.9	70 - 130	30	
Chloroform	ND	92	93	1.1	88	89	1.1	70 - 130	30	
Chloromethane	ND	98	122	21.8	100	99	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	94	93	1.1	90	93	3.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	98	94	4.2	92	92	0.0	70 - 130	30	
Dibromochloromethane	ND	102	103	1.0	100	99	1.0	70 - 130	30	
Dibromomethane	ND	95	92	3.2	96	94	2.1	70 - 130	30	
Dichlorodifluoromethane	ND	93	96	3.2	75	82	8.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Ethylbenzene	ND	94	97	3.1	93	93	0.0	70 - 130	30	
Hexachlorobutadiene	ND	95	95	0.0	83	93	11.4	70 - 130	30	
Isopropylbenzene	ND	94	96	2.1	90	91	1.1	70 - 130	30	
m&p-Xylene	ND	96	99	3.1	94	93	1.1	70 - 130	30	
Methyl ethyl ketone	ND	89	85	4.6	82	83	1.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	133	100	28.3	>150	111	NC	70 - 130	30	l,m
Methylene chloride	ND	99	106	6.8	129	100	25.3	70 - 130	30	
Naphthalene	ND	113	111	1.8	108	110	1.8	70 - 130	30	
n-Butylbenzene	ND	99	98	1.0	88	89	1.1	70 - 130	30	
n-Propylbenzene	ND	97	98	1.0	88	89	1.1	70 - 130	30	
o-Xylene	ND	98	99	1.0	97	96	1.0	70 - 130	30	
p-Isopropyltoluene	ND	98	98	0.0	92	92	0.0	70 - 130	30	
sec-Butylbenzene	ND	92	91	1.1	89	89	0.0	70 - 130	30	
Styrene	ND	101	102	1.0	98	98	0.0	70 - 130	30	
tert-Butylbenzene	ND	93	94	1.1	90	91	1.1	70 - 130	30	
Tetrachloroethene	ND	95	97	2.1	89	91	2.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	95	93	2.1	87	87	0.0	70 - 130	30	
Toluene	ND	95	92	3.2	93	93	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	110	99	10.5	143	123	15.0	70 - 130	30	m
trans-1,3-Dichloropropene	ND	99	94	5.2	95	94	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	111	111	0.0	78	76	2.6	70 - 130	30	
Trichloroethene	ND	95	94	1.1	91	92	1.1	70 - 130	30	
Trichlorofluoromethane	ND	98	100	2.0	131	98	28.8	70 - 130	30	m
Trichlorotrifluoroethane	ND	134	108	21.5	123	87	34.3	70 - 130	30	l,r
Vinyl chloride	ND	99	121	20.0	95	95	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	99	101	2.0	102	99	3.0	70 - 130	30	
% Bromofluorobenzene	96	98	101	3.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	96	100	98	2.0	94	98	4.2	70 - 130	30	
% Toluene-d8	101	100	98	2.0	100	100	0.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 268539, QC Sample No: BG17279 (BG17199 (45, 1X) , BG17200 (250X) , BG17201, BG17202 (50, 250X) , BG17203 (63, 1X) , BG17204 (227X) , BG17205 (56, 1X) , BG17206 (50, 1X) , BG17207, BG17208 (56X) , BG17213 (50X) , BG17214)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	107	110	2.8	107	106	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	106	97	8.9	101	103	2.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	109	100	8.6	109	105	3.7	70 - 130	30	
1,1,2-Trichloroethane	ND	115	105	9.1	108	105	2.8	70 - 130	30	
1,1-Dichloroethane	ND	118	102	14.5	112	96	15.4	70 - 130	30	
1,1-Dichloroethene	ND	100	105	4.9	98	105	6.9	70 - 130	30	
1,1-Dichloropropene	ND	105	114	8.2	113	114	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	116	113	2.6	113	111	1.8	70 - 130	30	
1,2,3-Trichloropropane	ND	109	104	4.7	103	101	2.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	121	117	3.4	117	120	2.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	115	124	7.5	113	118	4.3	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	119	104	13.5	108	101	6.7	70 - 130	30	
1,2-Dibromoethane	ND	113	104	8.3	110	104	5.6	70 - 130	30	
1,2-Dichlorobenzene	ND	106	110	3.7	110	112	1.8	70 - 130	30	
1,2-Dichloroethane	ND	111	105	5.6	104	99	4.9	70 - 130	30	
1,2-Dichloropropane	ND	107	109	1.9	114	110	3.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	111	120	7.8	113	118	4.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3-Dichlorobenzene	ND	108	113	4.5	113	115	1.8	70 - 130	30	
1,3-Dichloropropane	ND	111	106	4.6	111	105	5.6	70 - 130	30	
1,4-Dichlorobenzene	ND	106	111	4.6	111	113	1.8	70 - 130	30	
2,2-Dichloropropane	ND	114	107	6.3	106	95	10.9	70 - 130	30	
2-Chlorotoluene	ND	108	115	6.3	116	117	0.9	70 - 130	30	
2-Hexanone	ND	119	108	9.7	95	90	5.4	70 - 130	30	
2-Isopropyltoluene	ND	112	120	6.9	118	124	5.0	70 - 130	30	
4-Chlorotoluene	ND	108	113	4.5	111	116	4.4	70 - 130	30	
4-Methyl-2-pentanone	ND	121	105	14.2	107	102	4.8	70 - 130	30	
Acetone	ND	93	94	1.1	70	70	0.0	70 - 130	30	
Acrylonitrile	ND	129	92	33.5	122	91	29.1	70 - 130	30	r
Benzene	ND	102	107	4.8	111	110	0.9	70 - 130	30	
Bromobenzene	ND	108	111	2.7	112	113	0.9	70 - 130	30	
Bromochloromethane	ND	111	97	13.5	114	109	4.5	70 - 130	30	
Bromodichloromethane	ND	105	105	0.0	107	105	1.9	70 - 130	30	
Bromoform	ND	115	108	6.3	107	103	3.8	70 - 130	30	
Bromomethane	ND	98	102	4.0	73	78	6.6	70 - 130	30	
Carbon Disulfide	ND	91	100	9.4	88	100	12.8	70 - 130	30	
Carbon tetrachloride	ND	105	99	5.9	104	105	1.0	70 - 130	30	
Chlorobenzene	ND	108	111	2.7	112	112	0.0	70 - 130	30	
Chloroethane	ND	98	108	9.7	62	65	4.7	70 - 130	30	m
Chloroform	ND	107	99	7.8	109	107	1.9	70 - 130	30	
Chloromethane	ND	90	93	3.3	99	97	2.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	112	105	6.5	118	104	12.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	109	106	2.8	114	109	4.5	70 - 130	30	
Dibromochloromethane	ND	113	108	4.5	105	102	2.9	70 - 130	30	
Dibromomethane	ND	108	103	4.7	109	102	6.6	70 - 130	30	
Dichlorodifluoromethane	ND	75	81	7.7	94	107	12.9	70 - 130	30	
Ethylbenzene	ND	107	115	7.2	113	115	1.8	70 - 130	30	
Hexachlorobutadiene	ND	123	132	7.1	125	129	3.1	70 - 130	30	l
Isopropylbenzene	ND	113	121	6.8	117	123	5.0	70 - 130	30	
m&p-Xylene	ND	107	115	7.2	113	116	2.6	70 - 130	30	
Methyl ethyl ketone	ND	104	91	13.3	91	83	9.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	106	101	4.8	123	103	17.7	70 - 130	30	
Methylene chloride	ND	99	102	3.0	96	96	0.0	70 - 130	30	
Naphthalene	ND	124	113	9.3	115	115	0.0	70 - 130	30	
n-Butylbenzene	ND	120	133	10.3	118	125	5.8	70 - 130	30	l
n-Propylbenzene	ND	118	127	7.3	116	122	5.0	70 - 130	30	
o-Xylene	ND	109	114	4.5	118	119	0.8	70 - 130	30	
p-Isopropyltoluene	ND	117	129	9.8	119	125	4.9	70 - 130	30	
sec-Butylbenzene	ND	112	123	9.4	118	124	5.0	70 - 130	30	
Styrene	ND	109	114	4.5	115	115	0.0	70 - 130	30	
tert-Butylbenzene	ND	114	125	9.2	118	124	5.0	70 - 130	30	
Tetrachloroethene	ND	108	117	8.0	115	116	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	114	82	32.7	103	94	9.1	70 - 130	30	r
Toluene	ND	105	110	4.7	112	111	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	99	108	8.7	104	106	1.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	111	106	4.6	113	105	7.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	117	105	10.8	108	103	4.7	70 - 130	30	
Trichloroethene	ND	106	111	4.6	110	112	1.8	70 - 130	30	
Trichlorofluoromethane	ND	103	110	6.6	43	47	8.9	70 - 130	30	m
Trichlorotrifluoroethane	ND	105	119	12.5	104	113	8.3	70 - 130	30	
Vinyl chloride	ND	91	101	10.4	100	113	12.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBG17199

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	100	99	99	0.0	98	99	1.0	70 - 130	30
% Bromofluorobenzene	94	101	100	1.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	94	104	95	9.0	98	98	0.0	70 - 130	30
% Toluene-d8	98	99	98	1.0	101	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 268643, QC Sample No: BG17287 (BG17204 (500X))

Volatiles - Solid

% Bromofluorobenzene	95	100	99	1.0	100	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd 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
March 21, 2014

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17199	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	570	270	224	330	ug/Kg
BG17199	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	590	270	400	330	ug/Kg
BG17199	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.70	0.32	0.16	0.05	mg/Kg
BG17199	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	21.9	0.40	10	0.1	mg/Kg
BG17199	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	29.5	0.40	25	0.25	mg/kg
BG17199	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	23200	61	2000	1	mg/Kg
BG17199	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	2.56	0.07	0.81	0.81	mg/Kg
BG17199	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	2.56	0.07	0.18	0.18	mg/Kg
BG17199	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	2.56	0.07	0.1	0.002	mg/Kg
BG17199	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	430	4.0		0.15	mg/Kg
BG17199	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	26.6	0.40	13	0.4	mg/Kg
BG17199	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	25.4	0.40		0.03	mg/Kg
BG17199	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	45.6	0.40	20	0.2	mg/Kg
BG17200	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential Restricted	ND	1500	900	900	ug/Kg
BG17200	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	250	250	ug/Kg
BG17200	$8260MAR	Carbon tetrachloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	760	760	ug/Kg
BG17200	$8260MAR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	470	470	ug/Kg
BG17200	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	190	190	ug/Kg
BG17200	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	260	260	ug/Kg
BG17200	$8260MAR	Toluene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	700	700	ug/Kg
BG17200	$8260MAR	Tetrachloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	1300	1300	ug/Kg
BG17200	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	50	50	ug/Kg
BG17200	$8260MAR	Methyl t-butyl ether (MTBE)	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3100	930	930	ug/Kg
BG17200	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	9200	120	120	ug/Kg
BG17200	$8260MAR	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	1000	1000	ug/Kg
BG17200	$8260MAR	Chloroform	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	370	370	ug/Kg
BG17200	$8260MAR	Chlorobenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	1100	1100	ug/Kg
BG17200	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	20	20	ug/Kg
BG17200	$8260MAR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	330	330	ug/Kg
BG17200	$8260MAR	1,1,1-Trichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	680	680	ug/Kg
BG17200	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	270	270	ug/Kg
BG17200	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	60	60	ug/Kg
BG17200	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	9200	50	50	ug/Kg
BG17200	$8260MAR	1,2-Dichlorobenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	1100	1100	ug/Kg
BG17200	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1500	20	20	ug/Kg
BG17200	$8260MAR	Total Xylenes	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1500	260	260	ug/Kg
BG17200	$8260MAR	Toluene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1500	700	700	ug/Kg
BG17200	$8260MAR	Methyl t-butyl ether (MTBE)	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3100	930	930	ug/Kg
BG17200	$8260MAR	Ethylbenzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1500	1000	1000	ug/Kg
BG17200	$8260MAR	Benzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1500	60	60	ug/Kg
BG17200	$8260MAR	Benzene	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	60	5	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17200	$8260MAR	Vinyl chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	200	10	ug/Kg
BG17200	$8260MAR	1,1,1-Trichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	800	5	ug/Kg
BG17200	$8260MAR	Total Xylenes	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	1200		ug/Kg
BG17200	$8260MAR	Trichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	700	5	ug/Kg
BG17200	$8260MAR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	300	5	ug/Kg
BG17200	$8260MAR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	200	5	ug/Kg
BG17200	$8260MAR	Dibromochloromethane	NY / TAGM - Volatile Organics / Soil Standards	ND	920		5	ug/Kg
BG17200	$8260MAR	Acetone	NY / TAGM - Volatile Organics / Soil Standards	ND	9200	200	10	ug/Kg
BG17200	$8260MAR	Carbon tetrachloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	600	5	ug/Kg
BG17200	$8260MAR	1,3-Dichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	300	5	ug/Kg
BG17200	$8260MAR	1,1,2,2-Tetrachloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	920	600	5	ug/Kg
BG17200	$8260MAR	4-Methyl-2-pentanone	NY / TAGM - Volatile Organics / Soil Standards	ND	7700	1000	10	ug/Kg
BG17200	$8260MAR	Methyl Ethyl Ketone	NY / TAGM - Volatile Organics / Soil Standards	ND	9200	300	10	ug/Kg
BG17200	$8260MAR	Chloroform	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	300	5	ug/Kg
BG17200	$8260MAR	Methylene chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	100	5	ug/Kg
BG17200	$8260MAR	1,2,3-Trichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	400	5	ug/Kg
BG17200	$8260MAR	Tetrachloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	1400	5	ug/Kg
BG17200	$8260MAR	1,1-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	400	5	ug/Kg
BG17200	$8260MAR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1500	100	5	ug/Kg
BG17200	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	Phenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	30	330	ug/Kg
BG17200	$8270-SMR	Aniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	11000	100	330	ug/Kg
BG17200	$8270-SMR	2-Chlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	800	330	ug/Kg
BG17200	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	100	330	ug/Kg
BG17200	$8270-SMR	Nitrobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	200	330	ug/Kg
BG17200	$8270-SMR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	400	330	ug/Kg
BG17200	$8270-SMR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	220	330	ug/Kg
BG17200	$8270-SMR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	240	330	ug/Kg
BG17200	$8270-SMR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	100	330	ug/Kg
BG17200	$8270-SMR	Dimethylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	2000	330	ug/Kg
BG17200	$8270-SMR	2,6-Dinitrotoluene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	1000	330	ug/Kg
BG17200	$8270-SMR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6200	500	1600	ug/Kg
BG17200	$8270-SMR	Acenaphthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6200	200	1600	ug/Kg
BG17200	$8270-SMR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	11000	100	1600	ug/Kg
BG17200	$8270-SMR	Fluorene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6200	430	1600	ug/Kg
BG17200	$8270-SMR	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	410	330	ug/Kg
BG17200	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3900	800	800	ug/Kg
BG17200	$8270-SMR	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3900	1000	1600	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17200	$8270-SMR	Phenanthrene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Pyrene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Benzyl butyl phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	61	330	ug/Kg
BG17200	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benz(a)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	224	330	ug/Kg
BG17200	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Chrysene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	400	330	ug/Kg
BG17200	$8270-SMR	Di-n-octylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benzo(b)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	1100	330	ug/Kg
BG17200	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	800	800	ug/Kg
BG17200	$8270-SMR	Benzo(k)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	800	800	ug/Kg
BG17200	$8270-SMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	1100	330	ug/Kg
BG17200	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Benzo(a)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	1000	1000	ug/Kg
BG17200	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2700	500	500	ug/Kg
BG17200	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	500	500	ug/Kg
BG17200	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	500	500	ug/Kg
BG17200	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	Dibenz(a,h)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2700	330	330	ug/Kg
BG17200	$8270-SMR	Dibenz(a,h)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700	14	330	ug/Kg
BG17200	$8270-SMR	Benzo(ghi)perylene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2700		330	ug/Kg
BG17200	$PEST_SMR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	38	20	20	ug/Kg
BG17200	$PEST_SMR	b-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	38	36	36	ug/Kg
BG17200	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	12	5	5	ug/Kg
BG17200	$PEST_SMR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	38	20	8	ug/Kg
BG17200	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	24	3.3	3.3	ug/Kg
BG17200	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	12	5	5	ug/Kg
BG17200	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	75	14	14	ug/Kg
BG17200	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	24	3.3	3.3	ug/Kg
BG17200	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	24	3.3	3.3	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17200	$PEST_SMR	Methoxychlor	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	380		80	ug/Kg
BG17200	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.27	0.25	0.16	0.05	mg/Kg
BG17200	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	10.1	0.37	10	0.1	mg/Kg
BG17200	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	69.5	0.37	50	50	mg/kg
BG17200	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	69.5	0.37	25	0.25	mg/kg
BG17200	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	24400	56	2000	1	mg/Kg
BG17200	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.04	0.08	0.81	0.81	mg/Kg
BG17200	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.04	0.08	0.18	0.18	mg/Kg
BG17200	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	1.04	0.08	0.1	0.002	mg/Kg
BG17200	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	385	3.7		0.15	mg/Kg
BG17200	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	142	0.37	63	63	mg/Kg
BG17200	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	142	0.37		0.03	mg/Kg
BG17200	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	70.9	0.37	20	0.2	mg/Kg
BG17201	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benz(a)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	1300	270	224	330	ug/Kg
BG17201	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Chrysene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	1300	270	400	330	ug/Kg
BG17201	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	1500	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benzo(b)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1500	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	1500	270	1100	330	ug/Kg
BG17201	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Benzo(a)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1300	270	1000	1000	ug/Kg
BG17201	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	780	270	500	500	ug/Kg
BG17201	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	780	270	500	500	ug/Kg
BG17201	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	780	270	500	500	ug/Kg
BG17201	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	3.8	3.3	3.3	ug/Kg
BG17201	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	3.8	3.3	3.3	ug/Kg
BG17201	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.45	0.30	0.16	0.05	mg/Kg
BG17201	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	16.5	0.38	10	0.1	mg/Kg
BG17201	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	43.6	0.38	25	0.25	mg/kg
BG17201	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	17500	57	2000	1	mg/Kg
BG17201	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.63	0.09	0.18	0.18	mg/Kg
BG17201	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	0.63	0.09	0.1	0.002	mg/Kg
BG17201	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	279	3.8		0.15	mg/Kg
BG17201	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	13.8	0.38	13	0.4	mg/Kg
BG17201	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	129	0.38	63	63	mg/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17201	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	129	0.38		0.03	mg/Kg
BG17201	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	72.5	0.38	20	0.2	mg/Kg
BG17202	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	260	260	ug/Kg
BG17202	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	60	60	ug/Kg
BG17202	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	190	190	ug/Kg
BG17202	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1900	50	50	ug/Kg
BG17202	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	250	250	ug/Kg
BG17202	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1900	120	120	ug/Kg
BG17202	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	20	20	ug/Kg
BG17202	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	270	270	ug/Kg
BG17202	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	50	50	ug/Kg
BG17202	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	20	20	ug/Kg
BG17202	$8260MAR	Benzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	320	60	60	ug/Kg
BG17202	$8260MAR	Total Xylenes	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	320	260	260	ug/Kg
BG17202	$8260MAR	Methylene chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	320	100	5	ug/Kg
BG17202	$8260MAR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17202	$8260MAR	Vinyl chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	320	200	10	ug/Kg
BG17202	$8260MAR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	100	5	ug/Kg
BG17202	$8260MAR	Dibromochloromethane	NY / TAGM - Volatile Organics / Soil Standards	ND	190		5	ug/Kg
BG17202	$8260MAR	Chloroform	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17202	$8260MAR	Benzene	NY / TAGM - Volatile Organics / Soil Standards	ND	320	60	5	ug/Kg
BG17202	$8260MAR	Acetone	NY / TAGM - Volatile Organics / Soil Standards	ND	1900	200	10	ug/Kg
BG17202	$8260MAR	1,3-Dichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17202	$8260MAR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	200	5	ug/Kg
BG17202	$8260MAR	4-Methyl-2-pentanone	NY / TAGM - Volatile Organics / Soil Standards	ND	1600	1000	10	ug/Kg
BG17202	$8260MAR	Methyl Ethyl Ketone	NY / TAGM - Volatile Organics / Soil Standards	ND	1900	300	10	ug/Kg
BG17202	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	Phenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	30	330	ug/Kg
BG17202	$8270-SMR	Aniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	12000	100	330	ug/Kg
BG17202	$8270-SMR	2-Chlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	800	330	ug/Kg
BG17202	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	100	330	ug/Kg
BG17202	$8270-SMR	Nitrobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	200	330	ug/Kg
BG17202	$8270-SMR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	400	330	ug/Kg
BG17202	$8270-SMR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	220	330	ug/Kg
BG17202	$8270-SMR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	240	330	ug/Kg
BG17202	$8270-SMR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	100	330	ug/Kg
BG17202	$8270-SMR	Dimethylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	2000	330	ug/Kg
BG17202	$8270-SMR	2,6-Dinitrotoluene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	1000	330	ug/Kg
BG17202	$8270-SMR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6700	500	1600	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17202	$8270-SMR	Acenaphthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6700	200	1600	ug/Kg
BG17202	$8270-SMR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	12000	100	1600	ug/Kg
BG17202	$8270-SMR	Fluorene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	6700	430	1600	ug/Kg
BG17202	$8270-SMR	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	410	330	ug/Kg
BG17202	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	4200	800	800	ug/Kg
BG17202	$8270-SMR	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	4200	1000	1600	ug/Kg
BG17202	$8270-SMR	Phenanthrene	NY / TAGM - Semi-Volatiles / Soil Standards	3600	2900		330	ug/Kg
BG17202	$8270-SMR	Anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	Fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	4000	2900		330	ug/Kg
BG17202	$8270-SMR	Pyrene	NY / TAGM - Semi-Volatiles / Soil Standards	3700	2900		330	ug/Kg
BG17202	$8270-SMR	Benzyl butyl phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	61	330	ug/Kg
BG17202	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benz(a)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	224	330	ug/Kg
BG17202	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Chrysene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	400	330	ug/Kg
BG17202	$8270-SMR	Di-n-octylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benzo(b)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	1100	330	ug/Kg
BG17202	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	800	800	ug/Kg
BG17202	$8270-SMR	Benzo(k)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	800	800	ug/Kg
BG17202	$8270-SMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	1100	330	ug/Kg
BG17202	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Benzo(a)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	1000	1000	ug/Kg
BG17202	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2900	500	500	ug/Kg
BG17202	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	500	500	ug/Kg
BG17202	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	500	500	ug/Kg
BG17202	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	Dibenz(a,h)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	2900	330	330	ug/Kg
BG17202	$8270-SMR	Dibenz(a,h)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900	14	330	ug/Kg
BG17202	$8270-SMR	Benzo(ghi)perylene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	2900		330	ug/Kg
BG17202	$PEST_SMR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	40	20	20	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17202	$PEST_SMR	b-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	40	36	36	ug/Kg
BG17202	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	12	5	5	ug/Kg
BG17202	$PEST_SMR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	40	20	8	ug/Kg
BG17202	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	25	3.3	3.3	ug/Kg
BG17202	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	12	5	5	ug/Kg
BG17202	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	80	14	14	ug/Kg
BG17202	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	25	3.3	3.3	ug/Kg
BG17202	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	25	3.3	3.3	ug/Kg
BG17202	$PEST_SMR	Methoxychlor	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	400		80	ug/Kg
BG17202	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	199	7.6	16	16	mg/Kg
BG17202	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	199	7.6	13	13	mg/Kg
BG17202	AS-SM	Arsenic	NY / TAGM - Heavy Metals / Soil Standards	199	7.6	7.5	0.1	mg/Kg
BG17202	BA-SM	Barium	NY / 375-6.8 Metals / Residential Restricted	1080	0.38	400	400	mg/Kg
BG17202	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	1080	0.38	350	350	mg/Kg
BG17202	BA-SM	Barium	NY / TAGM - Heavy Metals / Soil Standards	1080	0.38	300	2	mg/Kg
BG17202	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.53	0.31	0.16	0.05	mg/Kg
BG17202	CD-SM	Cadmium	NY / TAGM - Heavy Metals / Soil Standards	2.11	0.38	1	0.05	mg/Kg
BG17202	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	49.3	0.38	30		mg/Kg
BG17202	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	49.3	0.38	10	0.1	mg/Kg
BG17202	CU-SM	Copper	NY / 375-6.8 Metals / Residential Restricted	462	3.8	270	270	mg/kg
BG17202	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	462	3.8	50	50	mg/kg
BG17202	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	462	3.8	25	0.25	mg/kg
BG17202	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	40600	57	2000	1	mg/Kg
BG17202	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	31.7	0.84	0.81	0.81	mg/Kg
BG17202	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	31.7	0.84	0.18	0.18	mg/Kg
BG17202	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	31.7	0.84	0.1	0.002	mg/Kg
BG17202	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	408	3.8		0.15	mg/Kg
BG17202	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	17.2	0.38	13	0.4	mg/Kg
BG17202	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	1560	38	400	400	mg/Kg
BG17202	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	1560	38	63	63	mg/Kg
BG17202	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	1560	38		0.03	mg/Kg
BG17202	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	834	3.8	109	109	mg/Kg
BG17202	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	834	3.8	20	0.2	mg/Kg
BG17203	$8260MAR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	620	290	470	470	ug/Kg
BG17203	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	600	260	224	330	ug/Kg
BG17203	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	580	260	400	330	ug/Kg
BG17203	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.61	0.31	0.16	0.05	mg/Kg
BG17203	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	21.2	0.39	10	0.1	mg/Kg
BG17203	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	32.9	0.39	25	0.25	mg/kg
BG17203	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	20900	59	2000	1	mg/Kg
BG17203	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	0.97	0.07	0.81	0.81	mg/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17203	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.97	0.07	0.18	0.18	mg/Kg
BG17203	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	0.97	0.07	0.1	0.002	mg/Kg
BG17203	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	389	3.9		0.15	mg/Kg
BG17203	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	19.0	0.39	13	0.4	mg/Kg
BG17203	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	118	0.39	63	63	mg/Kg
BG17203	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	118	0.39		0.03	mg/Kg
BG17203	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	133	0.39	109	109	mg/Kg
BG17203	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	133	0.39	20	0.2	mg/Kg
BG17204	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential Restricted	ND	1800	900	900	ug/Kg
BG17204	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	250	250	ug/Kg
BG17204	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	11000	50	50	ug/Kg
BG17204	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	60	60	ug/Kg
BG17204	$8260MAR	tert-Butylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	15000	1800	5900	5900	ug/Kg
BG17204	$8260MAR	Carbon tetrachloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	760	760	ug/Kg
BG17204	$8260MAR	sec-Butylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	50000	1800	11000	11000	ug/Kg
BG17204	$8260MAR	Chlorobenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	1100	1100	ug/Kg
BG17204	$8260MAR	Chloroform	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	370	370	ug/Kg
BG17204	$8260MAR	Methyl t-butyl ether (MTBE)	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3700	930	930	ug/Kg
BG17204	$8260MAR	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	1000	1000	ug/Kg
BG17204	$8260MAR	Tetrachloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	1300	1300	ug/Kg
BG17204	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	50	50	ug/Kg
BG17204	$8260MAR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	470	470	ug/Kg
BG17204	$8260MAR	1,1,1-Trichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	680	680	ug/Kg
BG17204	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	190	190	ug/Kg
BG17204	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	20	20	ug/Kg
BG17204	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	11000	120	120	ug/Kg
BG17204	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	270	270	ug/Kg
BG17204	$8260MAR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	330	330	ug/Kg
BG17204	$8260MAR	Toluene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	700	700	ug/Kg
BG17204	$8260MAR	1,2-Dichlorobenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	1100	1100	ug/Kg
BG17204	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	20	20	ug/Kg
BG17204	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1800	260	260	ug/Kg
BG17204	$8260MAR	sec-Butylbenzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	50000	1800	11000	11000	ug/Kg
BG17204	$8260MAR	Methyl t-butyl ether (MTBE)	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3700	930	930	ug/Kg
BG17204	$8260MAR	tert-Butylbenzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	15000	1800	5900	5900	ug/Kg
BG17204	$8260MAR	Toluene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1800	700	700	ug/Kg
BG17204	$8260MAR	Total Xylenes	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1800	260	260	ug/Kg
BG17204	$8260MAR	Ethylbenzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1800	1000	1000	ug/Kg
BG17204	$8260MAR	Isopropylbenzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	3000	1800	2300	2300	ug/Kg
BG17204	$8260MAR	Benzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	1800	60	60	ug/Kg
BG17204	$8260MAR	1,2,3-Trichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	400	5	ug/Kg

Sample Criteria Exceedences Report

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

GBG17199 - ESPL

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17204	$8260MAR	Total Xylenes	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	1200		ug/Kg
BG17204	$8260MAR	Vinyl chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	200	10	ug/Kg
BG17204	$8260MAR	1,1,2,2-Tetrachloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1100	600	5	ug/Kg
BG17204	$8260MAR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	200	5	ug/Kg
BG17204	$8260MAR	Trichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	700	5	ug/Kg
BG17204	$8260MAR	1,1-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	400	5	ug/Kg
BG17204	$8260MAR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	300	5	ug/Kg
BG17204	$8260MAR	1,1,1-Trichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	800	5	ug/Kg
BG17204	$8260MAR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	100	5	ug/Kg
BG17204	$8260MAR	Toluene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	1500	5	ug/Kg
BG17204	$8260MAR	Methylene chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	100	5	ug/Kg
BG17204	$8260MAR	Dibromochloromethane	NY / TAGM - Volatile Organics / Soil Standards	ND	1100		5	ug/Kg
BG17204	$8260MAR	Methyl Ethyl Ketone	NY / TAGM - Volatile Organics / Soil Standards	ND	11000	300	10	ug/Kg
BG17204	$8260MAR	Chlorobenzene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	1700	5	ug/Kg
BG17204	$8260MAR	Chloroform	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	300	5	ug/Kg
BG17204	$8260MAR	Carbon tetrachloride	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	600	5	ug/Kg
BG17204	$8260MAR	Benzene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	60	5	ug/Kg
BG17204	$8260MAR	Acetone	NY / TAGM - Volatile Organics / Soil Standards	ND	11000	200	10	ug/Kg
BG17204	$8260MAR	4-Methyl-2-pentanone	NY / TAGM - Volatile Organics / Soil Standards	ND	9200	1000	10	ug/Kg
BG17204	$8260MAR	Tetrachloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	1400	5	ug/Kg
BG17204	$8260MAR	1,3-Dichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	300	5	ug/Kg
BG17204	$8260MAR	1,3-Dichlorobenzene	NY / TAGM - Volatile Organics / Soil Standards	ND	1800	1600	330	ug/Kg
BG17204	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	Phenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	30	330	ug/Kg
BG17204	$8270-SMR	Aniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	14000	100	330	ug/Kg
BG17204	$8270-SMR	2-Chlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	800	330	ug/Kg
BG17204	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	100	330	ug/Kg
BG17204	$8270-SMR	Nitrobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	200	330	ug/Kg
BG17204	$8270-SMR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	400	330	ug/Kg
BG17204	$8270-SMR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	220	330	ug/Kg
BG17204	$8270-SMR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	240	330	ug/Kg
BG17204	$8270-SMR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	100	330	ug/Kg
BG17204	$8270-SMR	Dimethylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	2000	330	ug/Kg
BG17204	$8270-SMR	2,6-Dinitrotoluene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	1000	330	ug/Kg
BG17204	$8270-SMR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	7700	500	1600	ug/Kg
BG17204	$8270-SMR	Acenaphthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	7700	200	1600	ug/Kg
BG17204	$8270-SMR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	14000	100	1600	ug/Kg
BG17204	$8270-SMR	Fluorene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Soil Standards	ND	7700	430	1600	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17204	$8270-SMR	Hexachlorobenzene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	410	330	ug/Kg
BG17204	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	4800	800	800	ug/Kg
BG17204	$8270-SMR	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Soil Standards	ND	4800	1000	1600	ug/Kg
BG17204	$8270-SMR	Phenanthrene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Pyrene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Benzyl butyl phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	61	330	ug/Kg
BG17204	$8270-SMR	Bis(2-ethylhexyl)phthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benz(a)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	224	330	ug/Kg
BG17204	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Chrysene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	400	330	ug/Kg
BG17204	$8270-SMR	Di-n-octylphthalate	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benzo(b)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	1100	330	ug/Kg
BG17204	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	800	800	ug/Kg
BG17204	$8270-SMR	Benzo(k)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	800	800	ug/Kg
BG17204	$8270-SMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	1100	330	ug/Kg
BG17204	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Benzo(a)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	1000	1000	ug/Kg
BG17204	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	3400	500	500	ug/Kg
BG17204	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	500	500	ug/Kg
BG17204	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	500	500	ug/Kg
BG17204	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	3200	330	ug/Kg
BG17204	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	Dibenz(a,h)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	3400	330	330	ug/Kg
BG17204	$8270-SMR	Dibenz(a,h)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400	14	330	ug/Kg
BG17204	$8270-SMR	Benzo(ghi)perylene	NY / TAGM - Semi-Volatiles / Soil Standards	ND	3400		330	ug/Kg
BG17204	$PEST_SMR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	45	20	20	ug/Kg
BG17204	$PEST_SMR	b-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	45	36	36	ug/Kg
BG17204	$PEST_SMR	d-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	45	40	40	ug/Kg
BG17204	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	14	5	5	ug/Kg
BG17204	$PEST_SMR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	45	20	8	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17204	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	28	3.3	3.3	ug/Kg
BG17204	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	14	5	5	ug/Kg
BG17204	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	90	14	14	ug/Kg
BG17204	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	28	3.3	3.3	ug/Kg
BG17204	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND	28	3.3	3.3	ug/Kg
BG17204	$PEST_SMR	Methoxychlor	NY / TAGM - Pest/Herb/PCBs / Soil Standards	ND	450		80	ug/Kg
BG17204	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential Restricted	17.6	0.9	16	16	mg/Kg
BG17204	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	17.6	0.9	13	13	mg/Kg
BG17204	AS-SM	Arsenic	NY / TAGM - Heavy Metals / Soil Standards	17.6	0.9	7.5	0.1	mg/Kg
BG17204	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.29	0.25	0.16	0.05	mg/Kg
BG17204	CD-SM	Cadmium	NY / TAGM - Heavy Metals / Soil Standards	1.77	0.43	1	0.05	mg/Kg
BG17204	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	22.2	0.43	10	0.1	mg/Kg
BG17204	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	197	4.3	50	50	mg/kg
BG17204	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	197	4.3	25	0.25	mg/kg
BG17204	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	26900	64	2000	1	mg/Kg
BG17204	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	9.58	1.0	0.81	0.81	mg/Kg
BG17204	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	9.58	1.0	0.18	0.18	mg/Kg
BG17204	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	9.58	1.0	0.1	0.002	mg/Kg
BG17204	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	205	4.3		0.15	mg/Kg
BG17204	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	13.1	0.43	13	0.4	mg/Kg
BG17204	PB-SM	Lead	NY / 375-6.8 Metals / Residential Restricted	723	4.3	400	400	mg/Kg
BG17204	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	723	4.3	63	63	mg/Kg
BG17204	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	723	4.3		0.03	mg/Kg
BG17204	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	677	4.3	109	109	mg/Kg
BG17204	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	677	4.3	20	0.2	mg/Kg
BG17205	$8260MAR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	1800	300	470	470	ug/Kg
BG17205	$8260MAR	Trichloroethene	NY / TAGM - Volatile Organics / Soil Standards	1800	300	700	5	ug/Kg
BG17205	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.23	0.20	0.16	0.05	mg/Kg
BG17205	CD-SM	Cadmium	NY / TAGM - Heavy Metals / Soil Standards	1.37	0.36	1	0.05	mg/Kg
BG17205	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	12.6	0.36	10	0.1	mg/Kg
BG17205	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	43.4	0.36	25	0.25	mg/kg
BG17205	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	34900	53	2000	1	mg/Kg
BG17205	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.53	0.08	0.18	0.18	mg/Kg
BG17205	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	0.53	0.08	0.1	0.002	mg/Kg
BG17205	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	222	3.6		0.15	mg/Kg
BG17205	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	125	0.36	63	63	mg/Kg
BG17205	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	125	0.36		0.03	mg/Kg
BG17205	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	424	3.6	109	109	mg/Kg
BG17205	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	424	3.6	20	0.2	mg/Kg
BG17206	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	1200	290	250	250	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17206	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	12	2.2	3.3	3.3	ug/Kg
BG17206	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.56	0.31	0.16	0.05	mg/Kg
BG17206	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	16.7	0.39	10	0.1	mg/Kg
BG17206	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	28.9	0.39	25	0.25	mg/kg
BG17206	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	23400	59	2000	1	mg/Kg
BG17206	HG-SM	Mercury	NY / 375-6.8 Metals / Residential Restricted	1.40	0.09	0.81	0.81	mg/Kg
BG17206	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.40	0.09	0.18	0.18	mg/Kg
BG17206	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	1.40	0.09	0.1	0.002	mg/Kg
BG17206	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	274	3.9		0.15	mg/Kg
BG17206	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	21.2	0.39	13	0.4	mg/Kg
BG17206	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	189	3.9	63	63	mg/Kg
BG17206	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	189	3.9		0.03	mg/Kg
BG17206	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	71.0	0.39	20	0.2	mg/Kg
BG17207	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential Restricted	2200	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benz(a)anthracene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	2200	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Soil Standards	2200	250	224	330	ug/Kg
BG17207	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Chrysene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	2200	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Chrysene	NY / TAGM - Semi-Volatiles / Soil Standards	2200	250	400	330	ug/Kg
BG17207	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential Restricted	2500	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benzo(b)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	2500	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Soil Standards	2500	250	1100	330	ug/Kg
BG17207	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	250	800	800	ug/Kg
BG17207	$8270-SMR	Benzo(k)fluoranthene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1100	250	800	800	ug/Kg
BG17207	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	1800	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1800	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Benzo(a)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	1800	250	1000	1000	ug/Kg
BG17207	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential Restricted	830	250	500	500	ug/Kg
BG17207	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	830	250	500	500	ug/Kg
BG17207	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	830	250	500	500	ug/Kg
BG17207	AS-SM	Arsenic	NY / TAGM - Heavy Metals / Soil Standards	11.7	0.7	7.5	0.1	mg/Kg
BG17207	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.34	0.27	0.16	0.05	mg/Kg
BG17207	CD-SM	Cadmium	NY / TAGM - Heavy Metals / Soil Standards	2.26	0.33	1	0.05	mg/Kg
BG17207	CU-SM	Copper	NY / TAGM - Heavy Metals / Soil Standards	38.5	0.33	25	0.25	mg/kg
BG17207	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	20800	50	2000	1	mg/Kg
BG17207	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.56	0.06	0.18	0.18	mg/Kg
BG17207	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	0.56	0.06	0.1	0.002	mg/Kg
BG17207	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	164	3.3		0.15	mg/Kg
BG17207	NI-SM	Nickel	NY / TAGM - Heavy Metals / Soil Standards	14.3	0.33	13	0.4	mg/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17207	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	164	3.3	63	63	mg/Kg
BG17207	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	164	3.3		0.03	mg/Kg
BG17207	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	2360	33	109	109	mg/Kg
BG17207	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	2360	33	20	0.2	mg/Kg
BG17208	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	60	60	ug/Kg
BG17208	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	260	260	ug/Kg
BG17208	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1900	50	50	ug/Kg
BG17208	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	50	50	ug/Kg
BG17208	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	250	250	ug/Kg
BG17208	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	20	20	ug/Kg
BG17208	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	190	190	ug/Kg
BG17208	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	270	270	ug/Kg
BG17208	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1900	120	120	ug/Kg
BG17208	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	320	20	20	ug/Kg
BG17208	$8260MAR	Benzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	320	60	60	ug/Kg
BG17208	$8260MAR	Total Xylenes	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	320	260	260	ug/Kg
BG17208	$8260MAR	Methylene chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	320	100	5	ug/Kg
BG17208	$8260MAR	Vinyl chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	320	200	10	ug/Kg
BG17208	$8260MAR	trans-1,2-Dichloroethene	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17208	$8260MAR	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	200	5	ug/Kg
BG17208	$8260MAR	Methyl Ethyl Ketone	NY / TAGM - Volatile Organics / Soil Standards	ND	1900	300	10	ug/Kg
BG17208	$8260MAR	Dibromochloromethane	NY / TAGM - Volatile Organics / Soil Standards	ND	190		5	ug/Kg
BG17208	$8260MAR	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	100	5	ug/Kg
BG17208	$8260MAR	1,3-Dichloropropane	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17208	$8260MAR	4-Methyl-2-pentanone	NY / TAGM - Volatile Organics / Soil Standards	ND	1600	1000	10	ug/Kg
BG17208	$8260MAR	Acetone	NY / TAGM - Volatile Organics / Soil Standards	ND	1900	200	10	ug/Kg
BG17208	$8260MAR	Benzene	NY / TAGM - Volatile Organics / Soil Standards	ND	320	60	5	ug/Kg
BG17208	$8260MAR	Chloroform	NY / TAGM - Volatile Organics / Soil Standards	ND	320	300	5	ug/Kg
BG17208	BE-SM	Beryllium	NY / TAGM - Heavy Metals / Soil Standards	0.49	0.34	0.16	0.05	mg/Kg
BG17208	CR-SM	Chromium	NY / TAGM - Heavy Metals / Soil Standards	21.7	0.43	10	0.1	mg/Kg
BG17208	FE-SM	Iron	NY / TAGM - Heavy Metals / Soil Standards	23700	64	2000	1	mg/Kg
BG17208	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.27	0.09	0.18	0.18	mg/Kg
BG17208	HG-SM	Mercury	NY / TAGM - Heavy Metals / Soil Standards	0.27	0.09	0.1	0.002	mg/Kg
BG17208	MN-SM	Manganese	NY / TAGM - Heavy Metals / Soil Standards	535	4.3		0.15	mg/Kg
BG17208	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	93.5	0.43	63	63	mg/Kg
BG17208	PB-SM	Lead	NY / TAGM - Heavy Metals / Soil Standards	93.5	0.43		0.03	mg/Kg
BG17208	ZN-SM	Zinc	NY / TAGM - Heavy Metals / Soil Standards	47.4	0.43	20	0.2	mg/Kg
BG17213	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BG17213	$8260MER	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BG17213	$8260MER	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg

Sample Criteria Exceedences Report

GBG17199 - ESPL

Criteria: NY: 375, 375RRS, CP51S, TAGS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BG17213	$8260MER	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	5000	50	50	ug/Kg
BG17213	$8260MER	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	500	50	50	ug/Kg
BG17213	$8260MER	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BG17213	$8260MER	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3000	120	120	ug/Kg
BG17213	$8260MER	Benzene	NY / CP-51 Soil Cleanup / Gas & Fuel Oil Criteria	ND	250	60	60	ug/Kg
BG17213	$8260MER	Methylene chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	500	100	5	ug/Kg
BG17213	$8260MER	Methyl Ethyl Ketone	NY / TAGM - Volatile Organics / Soil Standards	ND	3000	300	10	ug/Kg
BG17213	$8260MER	1,1-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	250	200	5	ug/Kg
BG17213	$8260MER	Benzene	NY / TAGM - Volatile Organics / Soil Standards	ND	250	60	5	ug/Kg
BG17213	$8260MER	Acetone	NY / TAGM - Volatile Organics / Soil Standards	ND	5000	200	10	ug/Kg
BG17213	$8260MER	4-Methyl-2-pentanone	NY / TAGM - Volatile Organics / Soil Standards	ND	1300	1000	10	ug/Kg
BG17213	$8260MER	1,2-Dichloroethane	NY / TAGM - Volatile Organics / Soil Standards	ND	250	100	5	ug/Kg
BG17213	$8260MER	Vinyl chloride	NY / TAGM - Volatile Organics / Soil Standards	ND	250	200	10	ug/Kg
BG17213	$8260MER	Dibromochloromethane	NY / TAGM - Volatile Organics / Soil Standards	ND	250		5	ug/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

March 21, 2014

SDG I.D.: GBG17199

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

4 WKD

NY/NJ CHAIN OF CUSTODY RECORD

Temp 24 Pg 1 of 2

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

Data Delivery:
☐ Fax #:
☐ Email:

Customer: ESPL ENV. CONSULTANTS CORP.
Address: 2W 32 ST. NY NY 10001

Project: 126-3
Report to: RAY KAHN
Invoice to: ESPL

Project P.O: 126-3
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Ray Kahn Date: 3/6/14

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	VOC	SVOC	TAL METALS(23) Filtered	TAL METALS (23) unfiltered	TCB	PST							Soil VOA X Methanol [ ] S. Bisulfate X H2O	GL Soil container (B) oz ASIS	GL Soil container (4) oz ASIS	40 ml VOA Vial [ ] As is X 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
17199	SB1 (0-2)	S	3/6/14	9:10A	x	x	x	x	x	x							3	2								
17200	SB1 (8-12)	S	3/6/14	9:30A	x	x	x	x	x	x							3	2								
17201	SB3 (0-2)	S	3/6/14	11:45A	x	x	x	x	x	x							3	2								
17202	SB3 (8-12)	S	3/6/14	11:35A	x	x	x	x	x	x							3	2								
17203	SB2 (0-2)	S	3/6/14	12:00	x	x	x	x	x	x							3	2								
17204	SB2 (8-12)	S	3/6/14	12:20	x	x	x	x	x	x							3	2								
17205	SB5 (0-2)	S	3/6/14	1:50	x	x	x	x	x	x							3		4							
17206	SB5 (8-12)	S	3/6/14	2:15	x	x	x	x	x	x							3		4							
17207	SB4 (0-2)	S	3/6/14	2:45	x	x	x	x	x	x							3		4							
17208	SB4 (8-12)	S	3/6/14	3:00	x	x	x	x	x	x							3		4							
17209	MW-1	GW	3/6/14	4:40	x	x	x	x	x	x										3	4	1		1		
17210	MW-2	GW	3/6/14	5:30	x	x	x	x	x	x										3	4	1		1		

Relinquished by:	Accepted by:	Date:	Time:
Ray Kahn	[signature]	3-10-14	13:40
[signature]	Monica Pen	3-10-14	16:06

Comments, Special Requirements or Regulations:

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

* SURCHARGE APPLIES
Std

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

NY
☒ TOGS GA GW
☒ CP-51 Soil
☒ NY375 Unrestricted Soil
☒ NY375 Residential Soil
☒ NY375 Restricted Non-Residential Soil

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

4 CWICIP

NY/NJ CHAIN OF CUSTODY RECORD

Temp 24° Pg 2 of 2

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

Data Delivery:
☐ Fax #:
☐ Email:

Customer: ESPL Env. Consultants Corp.
Address: 2W 32 St. NY NYC 10001

Project: 126-3
Report to: Ray Kahn
Invoice to: ESPL

Project P.O: 126-3
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Ray Kahn Date: 3/6/14

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

Analysis Request: VOC

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC	Soil VOA [X] Methanol [ ] S. Bisulfate [X] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] 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
17211	Field Blnk	W	3/6/14	2:15	X				3						
17212	Field Blnk	—	3/6/14		X				2						
17213	Trip Blnk HL	—	3/6/14		X		3								
17214	TB-LL														

Relinquished by:	Accepted by:	Date:	Time:
Ray Kahn	[signature]	3-10-14	13:40
[signature]	Monica Perez	3-10-14	16:06

Comments, Special Requirements or Regulations:

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
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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: _____

PHOENIX
Environmental Laboratories, Inc.

Friday, March 14, 2014

Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Project ID: 126-3
Sample ID#s: BG17215 - BG17219

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

PHOENIX

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

March 14, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		03/06/14	16:25
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG17215
Phoenix ID: BG17215

Project ID: 126-3
Client ID: SVP-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Helium	ND	*10*			03/13/14	KCA	PEL	1
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.729*	ND	*5.00*	03/11/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.917*	ND	*5.00*	03/11/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.729*	ND	*5.00*	03/11/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.917*	ND	*5.00*	03/11/14	KCA	TO15	
1,1-Dichloroethane	ND	*1.24*	ND	*5.02*	03/11/14	KCA	TO15	
1,1-Dichloroethene	ND	*1.26*	ND	*4.99*	03/11/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.674*	ND	*5.00*	03/11/14	KCA	TO15	
1,2,4-Trimethylbenzene	1.8	*1.02*	8.84	*5.01*	03/11/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.651*	ND	*5.00*	03/11/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.832*	ND	*5.00*	03/11/14	KCA	TO15	
1,2-Dichloroethane	ND	*1.24*	ND	*5.02*	03/11/14	KCA	TO15	
1,2-dichloropropane	ND	*1.08*	ND	*4.99*	03/11/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.716*	ND	*5.00*	03/11/14	KCA	TO15	
1,3,5-Trimethylbenzene	ND	*1.02*	ND	*5.01*	03/11/14	KCA	TO15	
1,3-Butadiene	ND	*2.26*	ND	*5.00*	03/11/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.832*	ND	*5.00*	03/11/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.832*	ND	*5.00*	03/11/14	KCA	TO15	
1,4-Dioxane	ND	*1.39*	ND	*5.01*	03/11/14	KCA	TO15	
2-Hexanone(MBK)	ND	*1.22*	ND	*4.99*	03/11/14	KCA	TO15	1
4-Ethyltoluene	ND	*1.02*	ND	*5.01*	03/11/14	KCA	TO15	1
4-Isopropyltoluene	ND	*0.911*	ND	*5.00*	03/11/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*1.22*	ND	*4.99*	03/11/14	KCA	TO15	
Acetone	70.4	*2.11*	167	*5.01*	03/11/14	KCA	TO15	
Acrylonitrile	ND	*2.30*	ND	*4.99*	03/11/14	KCA	TO15	
Benzene	1.65	*1.57*	5.27	*5.01*	03/11/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-3

Phoenix I.D.: BG17215

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Benzyl chloride	ND	*0.966*	ND	*5.00*	03/11/14	KCA	TO15	
Bromodichloromethane	ND	*0.747*	ND	*5.00*	03/11/14	KCA	TO15	
Bromoform	ND	*0.484*	ND	*5.00*	03/11/14	KCA	TO15	
Bromomethane	ND	*1.29*	ND	*5.00*	03/11/14	KCA	TO15	
Carbon Disulfide	3.1	*1.61*	9.65	*5.01*	03/11/14	KCA	TO15	
Carbon Tetrachloride	ND	*0.198*	ND	*1.24*	03/11/14	KCA	TO15	
Chlorobenzene	ND	*1.09*	ND	*5.01*	03/11/14	KCA	TO15	
Chloroethane	39.6	*1.90*	104	*5.01*	03/11/14	KCA	TO15	
Chloroform	ND	*1.02*	ND	*4.98*	03/11/14	KCA	TO15	
Chloromethane	ND	*2.42*	ND	*4.99*	03/11/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*1.26*	ND	*4.99*	03/11/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*1.10*	ND	*4.99*	03/11/14	KCA	TO15	
Cyclohexane	53.6	*1.45*	184	*4.99*	03/11/14	KCA	TO15	
Dibromochloromethane	ND	*0.587*	ND	*5.00*	03/11/14	KCA	TO15	
Dichlorodifluoromethane	6.1	*1.01*	30.1	*4.99*	03/11/14	KCA	TO15	
Ethanol	ND	*2.66*	ND	*5.01*	03/11/14	KCA	TO15	1
Ethyl acetate	ND	*1.39*	ND	*5.00*	03/11/14	KCA	TO15	1
Ethylbenzene	ND	*1.15*	ND	*4.99*	03/11/14	KCA	TO15	
Heptane	2.85	*1.22*	11.7	*5.00*	03/11/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.469*	ND	*5.00*	03/11/14	KCA	TO15	
Hexane	16	*1.42*	56.4	*5.00*	03/11/14	KCA	TO15	
Isopropylalcohol	ND	*2.04*	ND	*5.01*	03/11/14	KCA	TO15	
Isopropylbenzene	ND	*1.02*	ND	*5.01*	03/11/14	KCA	TO15	
m,p-Xylene	3	*1.15*	13.0	*4.99*	03/11/14	KCA	TO15	
Methyl Ethyl Ketone	5.35	*1.70*	15.8	*5.01*	03/11/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*1.39*	ND	*5.01*	03/11/14	KCA	TO15	
Methylene Chloride	ND	*1.44*	ND	*5.00*	03/11/14	KCA	TO15	
n-Butylbenzene	ND	*0.911*	ND	*5.00*	03/11/14	KCA	TO15	1
o-Xylene	1.35	*1.15*	5.86	*4.99*	03/11/14	KCA	TO15	
Propylene	247	*2.91*	425	*5.00*	03/11/14	KCA	TO15	1
sec-Butylbenzene	4.65	*0.911*	25.5	*5.00*	03/11/14	KCA	TO15	1
Styrene	ND	*1.17*	ND	*4.98*	03/11/14	KCA	TO15	
Tetrachloroethene	ND	*0.184*	ND	*1.25*	03/11/14	KCA	TO15	
Tetrahydrofuran	ND	*1.70*	ND	*5.01*	03/11/14	KCA	TO15	1
Toluene	3.1	*1.33*	11.7	*5.01*	03/11/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*1.26*	ND	*4.99*	03/11/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*1.10*	ND	*4.99*	03/11/14	KCA	TO15	
Trichloroethene	1.15	*0.233*	6.18	*1.25*	03/11/14	KCA	TO15	
Trichlorofluoromethane	ND	*0.890*	ND	*5.00*	03/11/14	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.653*	ND	*5.00*	03/11/14	KCA	TO15	
Vinyl Chloride	0.65	*0.489*	1.66	*1.25*	03/11/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	Interference	*%*	Interference	*%*	03/11/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-3

Phoenix I.D.: BG17215

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
March 14, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 14, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		03/06/14	16:25
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG17215
Phoenix ID: BG17216

Project ID: 126-3
Client ID: SVP-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Helium	ND	*10*			03/13/14	KCA	PEL	1
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/10/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	03/10/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/10/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	03/10/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	03/10/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	03/10/14	KCA	TO15	
1,2,4-Trimethylbenzene	1.48	*0.204*	7.27	*1.00*	03/10/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	03/10/14	KCA	TO15	
1,3,5-Trimethylbenzene	0.34	*0.204*	1.67	*1.00*	03/10/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	03/10/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	03/10/14	KCA	TO15	1
4-Ethyltoluene	0.42	*0.204*	2.06	*1.00*	03/10/14	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	03/10/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.35	*0.244*	1.43	*1.00*	03/10/14	KCA	TO15	
Acetone	3.85	*0.421*	9.14	*1.00*	03/10/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	03/10/14	KCA	TO15	
Benzene	0.54	*0.313*	1.72	*1.00*	03/10/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-1

Phoenix I.D.: BG17216

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Benzyl chloride	ND	*0.193*	ND	*1.00*	03/10/14	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	03/10/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	03/10/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	03/10/14	KCA	TO15	
Carbon Disulfide	3.54	*0.321*	11.0	*1.00*	03/10/14	KCA	TO15	
Carbon Tetrachloride	0.06	*0.040*	0.377	*0.25*	03/10/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	03/10/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	03/10/14	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	03/10/14	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	03/10/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/10/14	KCA	TO15	
Cyclohexane	ND	*0.291*	ND	*1.00*	03/10/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	03/10/14	KCA	TO15	
Dichlorodifluoromethane	0.41	*0.202*	2.03	*1.00*	03/10/14	KCA	TO15	
Ethanol	9.46	*0.531*	17.8	*1.00*	03/10/14	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	1
Ethylbenzene	1.13	*0.230*	4.90	*1.00*	03/10/14	KCA	TO15	
Heptane	0.34	*0.244*	1.39	*1.00*	03/10/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	03/10/14	KCA	TO15	
Hexane	0.47	*0.284*	1.66	*1.00*	03/10/14	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	03/10/14	KCA	TO15	
Isopropylbenzene	0.25	*0.204*	1.23	*1.00*	03/10/14	KCA	TO15	
m,p-Xylene	4.19	*0.230*	18.2	*1.00*	03/10/14	KCA	TO15	
Methyl Ethyl Ketone	1.01	*0.339*	2.98	*1.00*	03/10/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	
Methylene Chloride	0.65	*0.288*	2.26	*1.00*	03/10/14	KCA	TO15	
n-Butylbenzene	0.36	*0.182*	1.97	*1.00*	03/10/14	KCA	TO15	1
o-Xylene	1.66	*0.230*	7.20	*1.00*	03/10/14	KCA	TO15	
Propylene	0.83	*0.581*	1.43	*1.00*	03/10/14	KCA	TO15	1
sec-Butylbenzene	0.75	*0.182*	4.11	*1.00*	03/10/14	KCA	TO15	1
Styrene	0.34	*0.235*	1.45	*1.00*	03/10/14	KCA	TO15	
Tetrachloroethene	13.6	*0.037*	92.2	*0.25*	03/10/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	03/10/14	KCA	TO15	1
Toluene	2.37	*0.266*	8.92	*1.00*	03/10/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/10/14	KCA	TO15	
Trichloroethene	12.3	*0.047*	66.0	*0.25*	03/10/14	KCA	TO15	
Trichlorofluoromethane	0.18	*0.178*	1.01	*1.00*	03/10/14	KCA	TO15	
Trichlorotrifluoroethane	0.18	*0.130*	1.38	*1.00*	03/10/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	03/10/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	110	*%*	110	*%*	03/10/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-1

Phoenix I.D.: BG17216

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
March 14, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 14, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		03/06/14	16:30
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG17215
Phoenix ID: BG17217

Project ID: 126-3
Client ID: SVP-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Helium	ND	*10*			03/13/14	KCA	PEL	1
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/10/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	03/10/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/10/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	03/10/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	03/10/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	03/10/14	KCA	TO15	
1,2,4-Trimethylbenzene	0.83	*0.204*	4.08	*1.00*	03/10/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	03/10/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	03/10/14	KCA	TO15	
1,3,5-Trimethylbenzene	0.39	*0.204*	1.92	*1.00*	03/10/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	03/10/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/10/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	03/10/14	KCA	TO15	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	03/10/14	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	03/10/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	03/10/14	KCA	TO15	
Acetone	8.33	*0.421*	19.8	*1.00*	03/10/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	03/10/14	KCA	TO15	
Benzene	1.34	*0.313*	4.28	*1.00*	03/10/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-2

Phoenix I.D.: BG17217

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Benzyl chloride	ND	*0.193*	ND	*1.00*	03/10/14	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	03/10/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	03/10/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	03/10/14	KCA	TO15	
Carbon Disulfide	0.74	*0.321*	2.30	*1.00*	03/10/14	KCA	TO15	
Carbon Tetrachloride	0.06	*0.040*	0.377	*0.25*	03/10/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	03/10/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	03/10/14	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	03/10/14	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	03/10/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/10/14	KCA	TO15	
Cyclohexane	1.18	*0.291*	4.06	*1.00*	03/10/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	03/10/14	KCA	TO15	
Dichlorodifluoromethane	0.41	*0.202*	2.03	*1.00*	03/10/14	KCA	TO15	
Ethanol	6.54	*0.531*	12.3	*1.00*	03/10/14	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	1
Ethylbenzene	0.85	*0.230*	3.69	*1.00*	03/10/14	KCA	TO15	
Heptane	0.82	*0.244*	3.36	*1.00*	03/10/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	03/10/14	KCA	TO15	
Hexane	1.22	*0.284*	4.30	*1.00*	03/10/14	KCA	TO15	
Isopropylalcohol	0.87	*0.407*	2.14	*1.00*	03/10/14	KCA	TO15	
Isopropylbenzene	1.33	*0.204*	6.53	*1.00*	03/10/14	KCA	TO15	
m,p-Xylene	2.63	*0.230*	11.4	*1.00*	03/10/14	KCA	TO15	
Methyl Ethyl Ketone	0.42	*0.339*	1.24	*1.00*	03/10/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	03/10/14	KCA	TO15	
Methylene Chloride	0.31	*0.288*	1.08	*1.00*	03/10/14	KCA	TO15	
n-Butylbenzene	3.35	*0.182*	18.4	*1.00*	03/10/14	KCA	TO15	1
o-Xylene	1.1	*0.230*	4.77	*1.00*	03/10/14	KCA	TO15	
Propylene	1.88	*0.581*	3.23	*1.00*	03/10/14	KCA	TO15	1
sec-Butylbenzene	9.64	*0.182*	52.9	*1.00*	03/10/14	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	03/10/14	KCA	TO15	
Tetrachloroethene	0.16	*0.037*	1.08	*0.25*	03/10/14	KCA	TO15	
Tetrahydrofuran	0.38	*0.339*	1.12	*1.00*	03/10/14	KCA	TO15	1
Toluene	4.78	*0.266*	18.0	*1.00*	03/10/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/10/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/10/14	KCA	TO15	
Trichloroethene	0.25	*0.047*	1.34	*0.25*	03/10/14	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	03/10/14	KCA	TO15	
Trichlorotrifluoroethane	0.17	*0.130*	1.30	*1.00*	03/10/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	03/10/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	Interference	*%*	Interference	*%*	03/10/14	KCA	TO15	

Project ID: 126-3
Client ID: SVP-2

Phoenix I.D.: BG17217

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
March 14, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

March 14, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		03/06/14	16:30
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG17215
Phoenix ID: BG17218

Project ID: 126-3
Client ID: INDOOR

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Helium	ND	*10*			03/13/14	KCA	PEL	1
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/11/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	03/11/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/11/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	03/11/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	03/11/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	03/11/14	KCA	TO15	
1,2,4-Trimethylbenzene	1.19	*0.204*	5.85	*1.00*	03/11/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	03/11/14	KCA	TO15	
1,3,5-Trimethylbenzene	0.32	*0.204*	1.57	*1.00*	03/11/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	03/11/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	03/11/14	KCA	TO15	1
4-Ethyltoluene	0.25	*0.204*	1.23	*1.00*	03/11/14	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	03/11/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	03/11/14	KCA	TO15	
Acetone	5.41	*0.421*	12.8	*1.00*	03/11/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	03/11/14	KCA	TO15	
Benzene	1.41	*0.313*	4.50	*1.00*	03/11/14	KCA	TO15	

Project ID: 126-3
Client ID: INDOOR

Phoenix I.D.: BG17218

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Benzyl chloride	ND	*0.193*	ND	*1.00*	03/11/14	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	03/11/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	03/11/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	03/11/14	KCA	TO15	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	03/11/14	KCA	TO15	
Carbon Tetrachloride	0.15	*0.040*	0.943	*0.25*	03/11/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	03/11/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	03/11/14	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	03/11/14	KCA	TO15	
Chloromethane	0.84	*0.484*	1.73	*1.00*	03/11/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/11/14	KCA	TO15	
Cyclohexane	0.71	*0.291*	2.44	*1.00*	03/11/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	03/11/14	KCA	TO15	
Dichlorodifluoromethane	0.79	*0.202*	3.90	*1.00*	03/11/14	KCA	TO15	
Ethanol	13.6	*0.531*	25.6	*1.00*	03/11/14	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	1
Ethylbenzene	1.01	*0.230*	4.38	*1.00*	03/11/14	KCA	TO15	
Heptane	1.02	*0.244*	4.18	*1.00*	03/11/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	03/11/14	KCA	TO15	
Hexane	1.28	*0.284*	4.51	*1.00*	03/11/14	KCA	TO15	
Isopropylalcohol	1.07	*0.407*	2.63	*1.00*	03/11/14	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	03/11/14	KCA	TO15	
m,p-Xylene	3.64	*0.230*	15.8	*1.00*	03/11/14	KCA	TO15	
Methyl Ethyl Ketone	0.58	*0.339*	1.71	*1.00*	03/11/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	
Methylene Chloride	0.68	*0.288*	2.36	*1.00*	03/11/14	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	03/11/14	KCA	TO15	1
o-Xylene	1.41	*0.230*	6.12	*1.00*	03/11/14	KCA	TO15	
Propylene	2	*0.581*	3.44	*1.00*	03/11/14	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	03/11/14	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	03/11/14	KCA	TO15	
Tetrachloroethene	0.34	*0.037*	2.30	*0.25*	03/11/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	03/11/14	KCA	TO15	1
Toluene	6.91	*0.266*	26.0	*1.00*	03/11/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/11/14	KCA	TO15	
Trichloroethene	0.05	*0.047*	0.268	*0.25*	03/11/14	KCA	TO15	
Trichlorofluoromethane	0.37	*0.178*	2.08	*1.00*	03/11/14	KCA	TO15	
Trichlorotrifluoroethane	0.37	*0.130*	2.83	*1.00*	03/11/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	03/11/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	100	*%*	100	*%*	03/11/14	KCA	TO15	

Project ID: 126-3
Client ID: INDOOR

Phoenix I.D.: BG17218

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
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Comments:

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Phyllis Shiller, Laboratory Director
March 14, 2014
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

March 14, 2014

FOR: Attn: Mr. Ray Kahn
ESPL
2 West 32nd Street
Suite 504
New York, NY 10001

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		03/06/14	16:30
Location Code:	ESPL	Received by:	SW	03/10/14	16:06
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBG17215
Phoenix ID: BG17219

Project ID: 126-3
Client ID: AMBIENT

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Helium	ND	*10*			03/13/14	KCA	PEL	1
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/11/14	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	03/11/14	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	03/11/14	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	03/11/14	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	03/11/14	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	03/11/14	KCA	TO15	
1,2,4-Trimethylbenzene	1.77	*0.204*	8.70	*1.00*	03/11/14	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	03/11/14	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	03/11/14	KCA	TO15	
1,3,5-Trimethylbenzene	0.4	*0.204*	1.96	*1.00*	03/11/14	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	03/11/14	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	03/11/14	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	03/11/14	KCA	TO15	1
4-Ethyltoluene	0.49	*0.204*	2.41	*1.00*	03/11/14	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	03/11/14	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.29	*0.244*	1.19	*1.00*	03/11/14	KCA	TO15	
Acetone	1.98	*0.421*	4.70	*1.00*	03/11/14	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	03/11/14	KCA	TO15	
Benzene	0.45	*0.313*	1.44	*1.00*	03/11/14	KCA	TO15	

Project ID: 126-3
Client ID: AMBIENT

Phoenix I.D.: BG17219

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Benzyl chloride	ND	*0.193*	ND	*1.00*	03/11/14	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	03/11/14	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	03/11/14	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	03/11/14	KCA	TO15	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	03/11/14	KCA	TO15	
Carbon Tetrachloride	0.08	*0.040*	0.503	*0.25*	03/11/14	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	03/11/14	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	03/11/14	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	03/11/14	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	03/11/14	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/11/14	KCA	TO15	
Cyclohexane	ND	*0.291*	ND	*1.00*	03/11/14	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	03/11/14	KCA	TO15	
Dichlorodifluoromethane	0.41	*0.202*	2.03	*1.00*	03/11/14	KCA	TO15	
Ethanol	4.51	*0.531*	8.49	*1.00*	03/11/14	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	1
Ethylbenzene	0.87	*0.230*	3.78	*1.00*	03/11/14	KCA	TO15	
Heptane	0.32	*0.244*	1.31	*1.00*	03/11/14	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	03/11/14	KCA	TO15	
Hexane	0.35	*0.284*	1.23	*1.00*	03/11/14	KCA	TO15	
Isopropylalcohol	0.42	*0.407*	1.03	*1.00*	03/11/14	KCA	TO15	
Isopropylbenzene	0.98	*0.204*	4.81	*1.00*	03/11/14	KCA	TO15	
m,p-Xylene	3.1	*0.230*	13.4	*1.00*	03/11/14	KCA	TO15	
Methyl Ethyl Ketone	0.36	*0.339*	1.06	*1.00*	03/11/14	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	03/11/14	KCA	TO15	
Methylene Chloride	0.32	*0.288*	1.11	*1.00*	03/11/14	KCA	TO15	
n-Butylbenzene	2.09	*0.182*	11.5	*1.00*	03/11/14	KCA	TO15	1
o-Xylene	1.27	*0.230*	5.51	*1.00*	03/11/14	KCA	TO15	
Propylene	0.76	*0.581*	1.31	*1.00*	03/11/14	KCA	TO15	1
sec-Butylbenzene	5.14	*0.182*	28.2	*1.00*	03/11/14	KCA	TO15	1
Styrene	0.25	*0.235*	1.06	*1.00*	03/11/14	KCA	TO15	
Tetrachloroethene	0.05	*0.037*	0.339	*0.25*	03/11/14	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	03/11/14	KCA	TO15	1
Toluene	1.97	*0.266*	7.42	*1.00*	03/11/14	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	03/11/14	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	03/11/14	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	03/11/14	KCA	TO15	
Trichlorofluoromethane	0.19	*0.178*	1.07	*1.00*	03/11/14	KCA	TO15	
Trichlorotrifluoroethane	0.19	*0.130*	1.46	*1.00*	03/11/14	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	03/11/14	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	123	*%*	123	*%*	03/11/14	KCA	TO15	

Project ID: 126-3

Client ID: AMBIENT

Phoenix I.D.: BG17219

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

March 14, 2014

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

QA/QC Report

March 14, 2014

QA/QC Data

SDG I.D.: GBG17215

QA/QC Batch 268543, QC Sample No: BG17219 (BG17216, BG17217, BG17218, BG17219)

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	113	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	76	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	106	8.70	9.14	1.77	1.86	5.0	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	103	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	102	2.21	1.92	0.45	0.39	14.3	70 - 130	20
1,3-Butadiene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	100	2.41	2.46	0.49	0.5	2.0	70 - 130	20
4-Isopropyltoluene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	91	1.19	1.31	0.29	0.32	9.8	70 - 130	20
Acetone	ND	ND	90	4.70	5.44	1.98	2.29	14.5	70 - 130	20
Acrylonitrile	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	100	1.50	1.47	0.47	0.46	2.2	70 - 130	20
Benzyl chloride	ND	ND	130	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	139	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	93	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	118	0.503	0.440	0.08	0.07	13.3	70 - 130	20
Chlorobenzene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	ND	121	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	97	1.98	2.32	0.4	0.47	16.1	70 - 130	20
Ethanol	ND	ND	82	8.49	9.62	4.51	5.11	12.5	70 - 130	20

QA/QC Data

SDG I.D.: GBG17215

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	99	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	98	3.78	3.73	0.87	0.86	1.2	70 - 130	20
Heptane	ND	ND	97	1.39	1.35	0.34	0.33	3.0	70 - 130	20
Hexachlorobutadiene	ND	ND	74	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	100	1.34	1.30	0.38	0.37	2.7	70 - 130	20
Isopropylalcohol	ND	ND	87	1.03	1.30	0.42	0.53	23.2	70 - 130	20
Isopropylbenzene	ND	ND	99	4.81	4.67	0.98	0.95	3.1	70 - 130	20
m,p-Xylene	ND	ND	103	13.4	13.5	3.1	3.12	0.6	70 - 130	20
Methyl Ethyl Ketone	ND	ND	94	1.03	1.15	0.35	0.39	10.8	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	86	1.18	1.22	0.34	0.35	2.9	70 - 130	20
n-Butylbenzene	ND	ND	103	11.5	11.7	2.09	2.14	2.4	70 - 130	20
o-Xylene	ND	ND	99	5.51	5.42	1.27	1.25	1.6	70 - 130	20
Propylene	ND	ND	96	1.31	1.51	0.76	0.88	14.6	70 - 130	20
sec-Butylbenzene	ND	ND	102	28.2	28.5	5.14	5.19	1.0	70 - 130	20
Styrene	ND	ND	103	1.06	1.02	0.25	0.24	4.1	70 - 130	20
Tetrachloroethene	ND	ND	102	0.339	0.407	0.05	0.06	18.2	70 - 130	20
Tetrahydrofuran	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	ND	101	7.42	7.42	1.97	1.97	0.0	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	117	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	99	1.07	1.24	0.19	0.22	14.6	70 - 130	20
Trichlorotrifluoroethane	ND	ND	93	1.46	1.68	0.19	0.22	14.6	70 - 130	20
Vinyl Chloride	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	107	107	100	123	127	123	127	3.2	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
March 14, 2014

Sample Criteria Exceedences Report

GBG17215 - ESPL

Criteria: None

State: NY

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
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CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # 126-3 Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☐ Email: RKAHN@ESPL.COM
- ☐ Phone #:

Report to: ESPL / Ray Kahn

Customer: ESPL Env. Consultants Corp.

Address: 2W 32 ST.
NY NY 10001

Invoice to: ESPL

Sampled by:

Project Name: 126-3

Criteria Requested: Deliverable: RCP ☐ MCP ☐

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	
17215	SVP-3	488	6.0	-30	-0	4483		4:05	4:25	3/6	-30	Φ		X			X
17216	SVP-1	477	↓	↓	-0	4488		4:10	4:25	3/6	-30	Φ		X			X
17217	SVP-2	473			-0	4987		4:15	4:30	3/6	-30	Φ		X			X
17218	Indoor	12864			-0	5044		4:20	4:30	3/6	-30	Φ	X				X
17219	Ambient	13646			-0	5710		4:25	4:30	3/6	-30	Φ	X				X
	6L 24hr																

Relinquished by:	Accepted by:	Date:	Time:
Ray Kahn		3-10-14	13:10
	Monica J Pell	3-10-14	16:00

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

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(Helium Tracer Gas)

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:

Quote Number:

Signature: Date: