# 212-218 N 9TH STREET

**BROOKLYN, NEW YORK**

# Remedial Investigation Report

**NYC VCP Site Number: 13CVCP122K**

**Prepared for:**

FPG 212-218 North 9th Property LLC

45 Main Street, Suite 302

Brooklyn, NY 11201

**Prepared by:**

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

1808 Middle Country Road

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March 2013

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# LIST OF ACRONYMS

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

# CERTIFICATION

I, Charles Sosik, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the Redevelopment Project located at 212-218 N 9th Street, Brooklyn, NY, (NYC VCP Site No. 13CVCP122K). 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.

| | | |
|---|---|---|
| Charles Sosik | 3/25/13 | Charles Sosik |
| 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 212-218 N 9th Street in the Williamsburg section of Brooklyn, New York, and is identified as Block 2313 and Lots 5 and 7 on the New York City Tax Map. Figure 1 shows the Site location. The combined lots total approximately 14,838 square feet and are currently vacant.

The Site is bounded by N. 9th Street to the north, commercial properties to the west and east, and residential and commercial properties to the south. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant.

**Summary of Proposed Redevelopment Plan**

The proposed future use of the Site will consist of residential use. Redevelopment plans include the new construction of a 7-story residential building. The building will be slab-on-grade with no cellar level. The first floor will cover the entire property and feature a 16 space parking garage in the rear of the building with recreation space, storage, mechanical rooms and the residential lobby. Floors 2 through 7 will consist of residential apartments with a total of 32 units. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R3-1. The proposed use is consistent with existing zoning for the property.

Little or no soil disturbance/excavation will be performed as redevelopment plans call for slab-on-grade construction with no cellar.

**Summary of Past Uses of Site and Areas of Concern**

According to historical Sanborn maps, in 1887 the northern portion (212-216 9th Street) of the Site was developed with single story commercial building occupied by Excelsior Whitening

Mills and the southern portion of the Site (218 9th Street) was developed with one two-story commercial building occupied by a slaughter house and a single story shed. From 1905 to 1916, the northern portion of the Site is occupied by J.A. McCafferty National White Lead and Color Works and the southern portion of the property remains unchanged. In 1942, the northern portion of the Site remains unchanged and the southern portion of the site is vacant land. In 1951, the northern portion of the Site is vacant and open land and the southern portion of the Site is developed with a single story commercial building utilized for parking. From 1965 to 2007, the northern portion of the Site is open land which was utilized for parking and the southern portion of the Site remains unchanged.

The AOCs identified for this Site include:

1. The northern portion of the Site was occupied by J.A. McCafferty National White Lead and Color Works; a paint manufacture. As such, there is a potential for historic site operations to have impacted soil, groundwater and/or soil vapor quality beneath the Site.
2. Historic fill layer is present at the Site from grade to depths as great as 5 feet below grade.

**Summary of the Work Performed under the Remedial Investigation**

FPG 212-218 N 9th Property LLC performed the following scope of work:

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

**Summary of Environmental Findings**

1. Elevation of the property is approximately 15 feet. Depth to groundwater is approximately 5 feet below grade at the Site. Groundwater flow is generally to the northwest.

2. Depth to bedrock is at the Site is greater than 100 feet. The stratigraphy of the Site, from the surface down, consists of approximately 5 feet of historic fill underlain by a native fine brown sand.

3. 2007 Investigation Results: Soil/Fill samples analyzed detected VOCs and included naphthalene (max. of 21,000 ppb), Butylbenzene (max. of 177 ppb), 1,2,4-Trimethylbenzene (1094 ppb) and 1,3,5-Trimethylbenzene (671 ppb). SVOCs including benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected above Restricted Residential SCOs. Metals including Barium (maximum of 5,901 ppm), Chromium (maximum of 33,402 ppm), Lead (maximum of 28,231 ppm) and Zinc (maximum of 576 ppm) were detected above Unrestricted Residential SCOs. Pesticides and PCBs were below unrestricted Use SCOs.

4. 2013 Investigation Results: Soil/fill samples collected during the RI showed no Pesticides or PCBs at detectable concentrations. VOC, naphthalene (9100 ppb) was detected in one soil boring, below Unrestricted Use SCOs. PCE, TCE, and carbon tetrachloride were not detected in soil samples collected from this Site. Several PAH related SVOCs were detected above Resticted Residential SCOs in shallow soil samples and included benz(a)anthracene (maximum of 15,000 ppm), benzo(a)pyrene (maximum of 12,000 ppb), benzo(b)fluoranthene (maximum of 17,000 ppb), benzo(k)fluoranthene (maximum of 5,100 ppb), Chrysene (maximum of 14,000 ppb), dibenz(a,h)anthracene (maximum of 1,700 ppb), and indeno(1,2,3-cd)pyrene (maximum of 4,600 ppb). Nine metals exceeded Unrestricted Use SCOs in both shallow and deep soil samples and included arsenic (maximum of 125 ppm), barium (maximum of 7,380 ppm), cadmium (maximum of 6.96 ppm), chromium (maximum of 496 ppm), copper (maximum of 157 ppm), lead (maximum of 6,620 ppm), mercury (maximum of 2.1 ppm), nickel (maximum of 35.8 ppm), and zinc (maximum of

5,240 ppm). Of these metals, arsenic, barium, cadmium, chromium, lead, and mercury also exceeded Restricted Residential SCOs.

5. 2007 Investigation Results: No Pesticides, PCBs or SVOCs were reported in any of the groundwater samples above their GQS. Only two VOCs , xylene and 1,2,4-trimethyl benzene were reported above standards at 11 ug/L and 17 ug/L respectively.

6. 2013 Investigation Results: No Pesticides or PCBs were detected in any of the groundwater samples collected at the Site. Only one VOC, napthalene, was detected at a maximum concentration of 5.9 ppb, below its GQS. PCE, TCE, and carbon tetrachloride were not detected in groundwater samples collected from this Site. Several SVOCs were detected in all three groundwater samples exceeding GQS and included 2-Methylphenol (o-cresol) (maximum of 130 ppb), 3&4-Methylphenol (m&p-cresol) (maximum of 390 ppb), naphthalene (maximum of 15 ppb), phenol (maximum of 98 ppb), benzo(a)anthracene (maximum of 4.2 ppb), benzo(b)fluoranthene (maximum of 4.4 ppb), benzo(k)fluoranthene (maximum of 1.8 ppb), chrysene (maximum of 3.8 ppb), and indeno(a,2,3-cd)pyrene (maximum of 2.7 ppb). The dissolved concentration of the metals magnesium, manganese and sodium were detected above their respective GQS.

7. Soil vapor samples collected during the RI showed petroleum VOCs at generally moderate concentrations and chlorinated VOCs at generally low concentrations. Total BTEX concentrations were present at each of the four locations at a maximum of 202.7 $\mu g/m^3$. PCE was identified in all samples at a maximum concentration of 8 $\mu g/m^3$. TCE was identified in all soil vapor samples at a maximum concentration of 0.591 $\mu g/m^3$. 1,1,1 – TCA was identified in all soil vapor samples at a maximum concentration of 5.83 $\mu g/m^3$. Carbon Tetrachloride was identified in all soil vapor samples at a maximum concentration of 0.629 $\mu g/m^3$. All of these concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix.

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

FPG 212-218 N 9th Property LLC has enrolled in the New York City Volunteer Cleanup Program (NYC VCP) to investigate and remediate a 0.34-acre Site located at 212-218 N 9th Street in the Williamsburg section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between February 18, 2013, and March 14, 2013. 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 212-218 N 9th Street in the Williamsburg section of Brooklyn, New York, and is identified as Block 2313 and Lots 5 and 7 on the New York City Tax Map. Figure 1 shows the Site location. The combined lots total approximately 14,838-square feet and are currently vacant.

The Site is bounded by N. 9th Street to the north, commercial properties to the west and east, and residential and commercial properties to the south. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of residential use. Redevelopment plans include the new construction of a 7-story residential building. The building will be slab-on-grade with no cellar level. The first floor will cover the entire property and feature a 16 space parking garage in the rear of the building with recreation space, storage, mechanical rooms and the residential lobby. Floors 2 through 7 will consist of residential apartments with a total of 32 units. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R3-1. The proposed use is consistent with existing zoning for the property.

Little or no soil disturbance/excavation will be performed as redevelopment plans call for slab-on-grade construction with no cellar.

### 1.3 Description of Surrounding Property

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

**Surrounding Property Usage**

| Direction | Property Description |
|---|---|
| **North –** Opposite side of N 9th Street | Block 2306, Lots 28 and 30 (213 to 219 N 9th Street) – Developed with a multi-story residential apartment building. |
| **South –** Adjacent properties | Block 2313, Lots 24 and 26 to 29 (203 to 213 N 8th Street) – Lots 24 and 26 are industrial/commercial facilities. Lot 27 is a vacant uncapped parcel measuring 20 x 100ft. Lots 28 and 29 consist of 5-story residential apartment buildings. All Lost front N 8th Street. |
| **East –** Adjacent property | Block 2313, Lot 1 (505 Driggs Avenue) – Developed with a 2-story industrial/manufacturing facility. |
| **West –** Adjacent property | Block 2313, Lot 11 (N 9th Street) – Undeveloped asphalt paved parking lot. |


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# 2.0 SITE HISTORY

## 2.1 Past Uses and Ownership

According to historical Sanborn maps, in 1887 the northern portion (212-216 9th Street) of the Site was developed with single story commercial building occupied by Excelsior Whitening Mills and the southern portion of the Site (218 9th Street) was developed with one two-story commercial building occupied by a slaughter house and a single story shed. From 1905 to 1916, the northern portion of the Site is occupied by J.A. McCafferty National White Lead and Color Works and the southern portion of the property remains unchanged. In 1942, the northern portion of the Site remains unchanged and the southern portion of the site is vacant land. In 1951, the northern portion of the Site is vacant and open land and the southern portion of the Site is developed with a single story commercial building utilized for parking. From 1965 to 2007, the northern portion of the Site is open land which was utilized for parking and the southern portion of the Site remains unchanged.

## 2.2 Previous Investigations

The following environmental reports were developed for the Site:

- Phase II Environmental Site Assessment. ESPL Environmental Consultants Corporation. December 2007.
- Remedial Action Work Plan. ESPL Environmental Consultants Corporation. February 2008.

Digital (PDF) copies of the above referenced reports were previously submitted to OER and are available in the project file.

## 2.3 Site Inspection

Ms. Kristen Discenza of EBC performed the site inspection on February 18, 2013, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the Site.

At the time of the inspection, the Site consisted of vacant land No evidence of an aboveground or underground storage tank was observed on the Site and no evidence of a fill pipe or vent pipe was observed within the sidewalk.


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## 2.4 Areas of Concern

The AOCs identified for this Site include:

1. The northern portion of the Site was occupied by J.A. McCafferty National White Lead and Color Works; a paint manufacture. As such, there is a potential for historic site operations to have impacted soil, groundwater and/or soil vapor quality beneath the Site.
2. Historic fill layer is present at the Site from grade to depths as great as 5 feet below grade.

A copy of the Phase 1 Report is included in the project file.


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# 3.0 PROJECT MANAGEMENT

## 3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Charles Sosik.

## 3.2 Health and Safety

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

## 3.3 Materials Management

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


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## 4.0 REMEDIAL INVESTIGATION ACTIVITIES

FPG 212-218 N 9th Property LLC performed the following scope of work:

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

### 4.1 Geophysical Investigation

A geophysical investigation was not performed as a part of this assessment.

### 4.2 Borings and Monitoring Wells

**Drilling and Soil Logging**

On February 18, 2013, a total of six soil borings (B1-B6) were performed across the Site within the approximate locations shown on Figure 5. The six soil boring locations were chosen to gain representative soil and groundwater quality information across the areas of the Site accessible with a drill rig. For each of the six soil borings, soil samples were collected continuously from grade to a final depth of 2 feet below existing grade for locations B1 and B2, and 6 feet below existing grade for locations B3 through B6, using a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were obtained from any the of soil borings.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from borings B3 through B6 representing the interval 4 to 6 feet below grade. Soil boring details are provided in Table 1. Boring logs were prepared by a

Qualified Environmental Professional and are attached in Appendix A. A map showing the location of soil borings and monitor wells is shown in Figure 5.

**Groundwater Monitoring Well Construction**

A temporary 1-inch diameter PVC monitoring well with 10 feet of 0.010 slot screen was installed at soil boring locations B1, B2 and B3 set to intersect the water table. Since groundwater was encountered at approximately 4 feet below grade, monitoring wells were installed to a depth of 12 feet. Monitoring well sampling details are provided in Table 1. Monitoring well locations are shown in Figure 5.

**Survey**

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

**Water Level Measurement**

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

## 4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. 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.


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**Soil Sampling**

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

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

**Groundwater Sampling**

Three groundwater samples and one duplicate groundwater sample were collected for chemical analysis during this RI. Groundwater samples were collected by installing a one-inch diameter PVC well, approximately 10-feet below the water table interface (set at approximately 12 feet below grade). A groundwater sample was then collected from each temporary well utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

**Soil Vapor Sampling**

Five soil vapor probes were installed across the Site, due to re-grading activities onsite, one of these soil vapor probes, SG-2, were subsequently destroyed. A total of four soil gas samples were collected for chemical analysis. Soil vapor sampling locations are shown in Figure 5. Soil

vapor sample collection data is reported in Table 11. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.*

The five soil vapor probes were installed using Geoprobe™ equipment and tooling. The approximate location of each of the soil vapor implants is shown on Figure 5. The vapor implants that were installed were the Geoprobe™ Model AT86 series, which are constructed of a 6-inch length of double woven stainless steel wire. The implants were installed to a depth of 3 feet below grade at all locations. Each implant was attached to ¼ inch polyethylene tubing which extended approximately 18 inches beyond that needed to reach the surface. The tubing was capped with a ¼ inch plastic end to prevent the infiltration of foreign particles into the tube. Coarse sand was placed around the vapor implant to a height of approximately 1 foot above the bottom of the implant. The remainder of the borehole was sealed with a bentonite slurry to the surface.

Soil vapor sampling was conducted on March 13, 2013. Prior to sampling, each sampling location was tested to ensure a proper surface seal had been obtained. In accordance with NYSDOH guidance (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005), a tracer gas (helium) was used as a quality assurance/quality control device to verify the integrity of the sampling point seal prior to collecting the samples. Prior to testing and collecting samples, the surface immediately surrounding the polyethylene tubing of the vapor implant was sealed using a 1 foot ft by 1 ft square sheet of 2 mil HDPE plastic firmly adhered to a wetted layer of granular bentonite. The seal was then tested by enriching the air space above the seal with a tracer gas (helium) while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-Gas Detector) for a minimum of 15 minutes. The tracer gas test procedure was employed at all of the soil vapor probe sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the  ample 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 soil vapor probes. 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.

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

**Chemical Analysis**

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

| Factor | Description |
|---|---|
| Quality Assurance Officer | The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories |
| Chemical Analytical Laboratory | Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories |
| Chemical Analytical Methods | Soil analytical methods:<br>• TAL Metals by EPA Method 6010C (rev. 2007);<br>• VOCs by EPA Method 8260C (rev. 2006);<br>• SVOCs by EPA Method 8270D (rev. 2007);<br>• Pesticides by EPA Method 8081B (rev. 2000);<br>• PCBs by EPA Method 8082A (rev. 2000);<br>Groundwater analytical methods:<br>• TAL Metals by EPA Method 6010C (rev. 2007);<br>• VOCs by EPA Method 8260C (rev. 2006);<br>• SVOCs by EPA Method 8270D (rev. 2007);<br>• Pesticides by EPA Method 8081B (rev. 2000);<br>• PCBs by EPA Method 8082A (rev. 2000);<br>Soil vapor analytical methods:<br>• VOCs by TO-15 VOC parameters.. |

**Results of Chemical Analyses**

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


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# 5.0 ENVIRONMENTAL EVALUATION

## 5.1 Geological and Hydrogeological Conditions

### Stratigraphy

Subsurface soil at the Site consisted of historic fill, which was primarily comprised of brick, concrete, wood and other debris in a brown silty-sand matrix. The layer of historic fill extended to a depth ranging from ground surface to approximately 5 feet below grade. Native soil consisting of a fine brown sand is present below the historic fill layer.

### Hydrogeology

A table of water level data for all monitor wells is included in Table 1. The average depth to groundwater is 5 feet. Groundwater flow is generally northwest toward the East River.

## 5.2 Soil Chemistry

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

<u>2007 Investigation results:</u>

Soil/Fill samples analyzed detected VOCs and included naphthalene (max. of 21,000 ppb), Butylbenzene (max. of 177 ppb), 1,2,4-Trimethylbenzene (1094 ppb) and 1,3,5-Trimethylbenzene (671 ppb). SVOCs including benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and chrysene were detected above Restricted Residential SCOs. Metals including Barium (maximum of 5,901 ppm), Chromium (maximum of 33,402 ppm), Lead (maximum of 28,231 ppm) and Zinc (maximum of 576 ppm) were detected above Unrestricted Residential SCOs. Pesticides and PCBs were below unrestricted Use SCOs.


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2013 Investigation Results:

Soil/fill samples collected during the RI showed no Pesticides or PCBs at detectable concentrations. Only three VOC were detected, 1,2,4-Trimethylbenzene, 1,3-Dichlorobenzene, and naphthalene, which were identified in one soil boring (B6) at concentrations of 14 ppb, 7 ppb and 9,100 ppb, respectively, all of which were below Unrestricted Use SCOs. PCE, TCE, and carbon tetrachloride were not detected in soil samples collected from this Site. No SVOCs were detected in any of the four deep soil samples obtained, however, several SVOCs were detected in five of the six shallow soil samples collected from the historic fill layer present across the Site. Of those detected, seven compounds were detected an concentrations above Unrestricted Use SCOs: benz(a)anthracene (maximum of 15,000 ppm), benzo(a)pyrene (maximum of 12,000 ppb), benzo(b)fluoranthene (maximum of 17,000 ppb), benzo(k)fluoranthene (maximum of 5,100 ppb), Chrysene (maximum of 9,100 pbb), dibenz(a,h)anthracene (maximum of 1,700 ppb), and indeno(1,2,3-cd)pyrene (maximum of 4,600 ppb). Nine metals exceeded Unrestricted Use SCOs in both shallow and deep soil samples: Arsenic (maximum of 125 ppm), Barium (maximum of 7,380 ppm), Cadmium (maximum of 6.96 ppm), Chromium (maximum of 496 ppm), Copper (maximum of 157 ppm), Lead (maximum of 6,620 ppm), Mercury (maximum of 2.1 ppm), Nickel (maximum of 35.8 ppm), and Zinc (maximum of 5,240 ppm). Of these metals, only Arsenic, Barium, Cadmium, Lead, and Mercury were detected above Restricted Residential SCOs. Most metal exceedances were detected in boring B6. Overall, the findings were consistent with observations for other historical fill sites.

### 5.3 Groundwater Chemistry

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

2007 Investigation Results: No Pesticides, PCBs or SVOCs were reported in any of the groundwater samples above their GQS. Only two VOCs , xylene and 1,2,4-trimethyl benzene were reported above standards at 11 ug/L and 17 ug/L respectively.

2013 Investigation Results: No Pesticides or PCBs were detected in any of the groundwater samples collected at the Site. Only one VOC, napthalene, was detected at a maximum concentration of 5.9 ppb, below its GQS. PCE, TCE, and carbon tetrachloride were not detected in groundwater samples collected from this Site. Several SVOCs were detected in all three groundwater samples exceeding GQS and included 2-Methylphenol (o-cresol) (maximum of 130 ppb), 3&4-Methylphenol (m&p-cresol) (maximum of 390 ppb), naphthalene (maximum of 15 ppb), phenol (maximum of 98 ppb), benzo(a)anthracene (maximum of 4.2 ppb), benzo(b)fluoranthene (maximum of 4.4 ppb), benzo(k)fluoranthene (maximum of 1.8 ppb), chrysene (maximum of 3.8 ppb), and indeno(a,2,3-cd)pyrene (maximum of 2.7 ppb). The dissolved concentration of the metals magnesium, manganese and sodium were detected above their respective GQS.

### 5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI showed petroleum VOCs at generally moderate concentrations and chlorinated VOCs at generally low concentrations. BTEX concentrations were present at each of the four locations at a maximum of 202.7 $\mu g/m^3$. PCE was identified in all samples at a maximum concentration of 8 $\mu g/m^3$. TCE was identified in all soil vapor samples at a maximum concentration of 0.591 $\mu g/m^3$. All soil vapor PCE and TCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix.

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

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

## 5.5 Prior Activity

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

## 5.6 Impediments to Remedial Action

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


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# ***TABLES***

Table 1
2186 Mill Avenue, Brooklyn, NY
Soil Boring / Well Information

| SAMPLE ID | Date | Total Depth (ft) | Diameter (in) | Construction Materials | Screen Length (ft) | DTW (ft) |
|---|---|---|---|---|---|---|
| B1 | 2/18/2013 | 2 | 2 | Geoprobe | - | - |
| B2 | 2/18/2013 | 2 | 2 | Geoprobe | - | - |
| B3 | 2/18/2013 | 6 | 2 | Geoprobe | - | - |
| B4 | 2/18/2013 | 6 | 2 | Geoprobe | - | - |
| B5 | 2/18/2013 | 6 | 2 | Geoprobe | - | - |
| B6 | 2/18/2013 | 6 | 2 | Geoprobe | - | - |
| | | | | | | |
| MW1 | 2/19/2013 | 12 | 1 | PVC | 10.00 | 3.63 |
| MW2 | 3/25/2013 | 12 | 1 | PVC | 10.00 | 6.95 |
| MW3 | 2/20/2013 | 12 | 1 | PVC | 10.00 | 3.47 |

TABLE 2
212 North 9th Street, Brooklyn, New York
Soil Analytical Results
Volatile Organic Compounds

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | | | B4 | | | | B5 | | | | B6 | | | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | | (0-2') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachlorothane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,1,1-Trichloroethane | 680 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,1,2,2-Tetrachloroethane | | | ND | 2.2 | ND | 2.1 | ND | 3.8 | ND | 3.8 | ND | 2.6 | ND | 3.5 | ND | 3.4 | ND | 3.7 | ND | 3.9 | ND | 170 | ND | 2.7 |
| 1,1,2-Trichloroethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,1-Dichloroethane | 270 | 26,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,1-Dichloroethene | 330 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,1-Dichloropropene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2,3-Trichlorobenzene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2,3-Trichloropropane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2,4-Trichlorobenzene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2,4-Trimethylbenzene | 3,600 | 52,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | **14** | 6.6 | ND | 280 | ND | 4.5 |
| 1,2-Dibromo-3-chloropropane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2-Dichlorobenzene | 1,100 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2-Dichloroethane | 20 | 3,100 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,2-Dichloropropane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,3,5-Trimethylbenzene | 8,400 | 52,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,3-Dichlorobenzene | 2,400 | 4,900 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | **7** | 6.6 | ND | 280 | ND | 4.5 |
| 1,3-Dichloropropane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 1,4-Dichlorobenzene | 1,800 | 13,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 2,2-Dichloropropane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 2-Chlorotoluene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 2-Hexanone (Methyl Butyl Ketone) | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 2-Isopropyltoluene | | | ND | 18 | ND | 18 | ND | 31 | ND | 31 | ND | 22 | ND | 29 | ND | 29 | ND | 31 | ND | 33 | ND | 1400 | ND | 23 |
| 4-Chlorotoluene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| 4-Methyl-2-Pentanone | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Acetone | 50 | 100,000 | ND | 18 | ND | 18 | ND | 31 | ND | 31 | ND | 22 | ND | 29 | ND | 29 | ND | 31 | ND | 33 | ND | 1400 | ND | 23 |
| Acrylonitrile | | | ND | 74 | ND | 71 | ND | 130 | ND | 130 | ND | 87 | ND | 120 | ND | 110 | ND | 120 | ND | 130 | ND | 5500 | ND | 91 |
| Benzene | 60 | 4,800 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Bromobenzene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Bromochloromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Bromodichloromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Bromoform | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Bromomethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Carbon Disulfide | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Carbon tetrachloride | 760 | 2,400 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Chlorobenzene | 1,100 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Chloroethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Chloroform | 370 | 49,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Chloromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| cis-1,2-Dichloroethene | 250 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| cis-1,3-Dichloropropene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Dibromochloromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Dibromoethane | | | ND | 2.2 | ND | 2.1 | ND | 3.8 | ND | 3.8 | ND | 2.6 | ND | 3.5 | ND | 3.4 | ND | 3.7 | ND | 3.9 | ND | 170 | ND | 2.7 |
| Dibromomethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Dichlorodifluoromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Ethylbenzene | 1,000 | 41,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Hexachlorobutadiene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Isopropylbenzene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| m&p-Xylenes | 260 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Methyl Ethyl Ketone (2-Butanone) | 120 | 100,000 | ND | 22 | ND | 21 | ND | 38 | ND | 38 | ND | 26 | ND | 35 | ND | 34 | ND | 37 | ND | 39 | ND | 1700 | ND | 27 |
| Methyl t-butyl ether (MTBE) | 930 | 100,000 | ND | 7.4 | ND | 7.1 | ND | 13 | ND | 13 | ND | 8.7 | ND | 12 | ND | 11 | ND | 12 | ND | 13 | ND | 550 | ND | 9.1 |
| Methylene chloride | 50 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 130 | ND | 6.3 | ND | 4.4 | ND | 59 | ND | 57 | ND | 6.2 | ND | 220 | ND | 280 | ND | 4.5 |
| Naphthalene | 12,000 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | **3,700** | 320 | **9,100** | 280 | ND | 4.5 |
| n-Butylbenzene | 12,000 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| n-Propylbenzene | 3,900 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| o-Xylene | 260 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| p-Isopropyltoluene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| sec-Butylbenzene | 11,000 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Styrene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| tert-Butylbenzene | 5,900 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Tetrachloroethene | 1,300 | 19,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Tetrahydrofuran (THF) | | | ND | 7.4 | ND | 7.1 | ND | 13 | ND | 13 | ND | 8.7 | ND | 12 | ND | 11 | ND | 12 | ND | 13 | ND | 550 | ND | 9.1 |
| Toluene | 700 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Total Xylenes | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| trans-1,2-Dichloroethene | 190 | 100,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| trans-1,3-Dichloropropene | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| trabs-1,4-dichloro-2-butene | | | ND | 7.4 | ND | 7.1 | ND | 13 | ND | 13 | ND | 8.7 | ND | 12 | ND | 11 | ND | 12 | ND | 13 | ND | 550 | ND | 9.1 |
| Trichloroethene | 470 | 21,000 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Trichlorofluoromethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Trichlorotrifluoroethane | | | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |
| Vinyl Chloride | 20 | 900 | ND | 3.7 | ND | 3.6 | ND | 6.3 | ND | 6.3 | ND | 4.4 | ND | 5.9 | ND | 5.7 | ND | 6.2 | ND | 6.6 | ND | 280 | ND | 4.5 |

**Notes:**

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

TABLE 3
212 North 9th Street, Brooklyn, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | | | B4 | | | | B5 | | | | B6 | | | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') | | (0-2') | | (0-2') | | (4-6') | | (0-2') | | (4-6') | | (0-2') | | (4-6') | | (0-2') | | (4-6') | | (0-2') | |
| | | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | | µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,2,4,5-Tetrachlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 1,2,4-Trichlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 1,2-Dichlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 1,2-Diphenylhydrazine | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| 1,3-Dichlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 1,4-Dichlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,4,5-Trichlorophenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,4,6-Trichlorophenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,4-Dichlorophenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,4-Dimethylphenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,4-Dinitrophenol | | | ND | 600 | ND | 620 | ND | 650 | ND | 650 | ND | 610 | ND | 620 | ND | 600 | ND | 650 | ND | 700 | ND | 5800 | ND | 600 |
| 2,4-Dinitrotoluene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2,6-Dinitrotoluene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2-Chloronaphthalene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2-Chlorophenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2-Methylnaphthalene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **1,800** | 310 | ND | 2500 | **1,200** | 260 |
| 2-Methylphenol (o-cresol) | 330 | 100,000 | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 2-Nitroaniline | | | ND | 600 | ND | 620 | ND | 650 | ND | 650 | ND | 610 | ND | 620 | ND | 600 | ND | 650 | ND | 700 | ND | 5800 | ND | 600 |
| 2-Nitrophenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 3&4-Methylphenol (m&p-cresol) | 330 | 100,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| 3,3'-Dichlorobenzidine | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 3-Nitroaniline | | | ND | 600 | ND | 620 | ND | 650 | ND | 650 | ND | 610 | ND | 620 | ND | 600 | ND | 650 | ND | 700 | ND | 5800 | ND | 600 |
| 4,6-Dinitro-2-methylphenol | | | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1200 | ND | 1100 | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1300 | ND | 11000 | ND | 1100 |
| 4-Bromophenyl phenyl ether | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| 4-Chloro-3-methylphenol | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 4-Chloroaniline | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 4-Chlorophenyl phenyl ether | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| 4-Nitroaniline | | | ND | 600 | ND | 620 | ND | 650 | ND | 650 | ND | 610 | ND | 620 | ND | 600 | ND | 650 | ND | 700 | ND | 5800 | ND | 600 |
| 4-Nitrophenol | | | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1200 | ND | 1100 | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1300 | ND | 11000 | ND | 1100 |
| Acenaphthene | 20,000 | 100,000 | ND | 260 | **490** | 270 | **540** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **3,300** | 310 | ND | 2500 | **1,800** | 260 |
| Acenaphthylene | 100,000 | 100,000 | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **730** | 310 | ND | 2500 | **740** | 260 |
| Acetophenone | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Aniline | | | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1200 | ND | 1100 | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1300 | ND | 11000 | ND | 1100 |
| Anthracene | 100,000 | 100,000 | **570** | 260 | **1,500** | 270 | **1,100** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **9,400** | 310 | ND | 2500 | **5,000** | 260 |
| Benz(a)anthracene | 1,000 | 1,000 | **1,700** | 260 | **3,300** | 270 | **1,900** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **15,000** | 310 | ND | 2500 | **9,100** | 260 |
| Benzidine | | | ND | 450 | ND | 460 | ND | 490 | ND | 490 | ND | 460 | ND | 460 | ND | 450 | ND | 490 | ND | 520 | ND | 4400 | ND | 450 |
| Benzo(a)pyrene | 1,000 | 1,000 | **1,400** | 260 | **2,900** | 270 | **1,700** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **12,000** | 310 | ND | 2500 | **7,600** | 260 |
| Benzo(b)fluoranthene | 1,000 | 1,000 | **2,000** | 260 | **3,900** | 270 | **2,100** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **17,000** | 310 | ND | 2500 | **11,000** | 260 |
| Benzo(ghi)perylene | 100,000 | 100,000 | **960** | 260 | **1,600** | 270 | **1,000** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **4,200** | 310 | ND | 2500 | **2,900** | 260 |
| Benzo(k)fluoranthene | 800 | 3,900 | **490** | 260 | **1,000** | 270 | **630** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **5,100** | 310 | ND | 2500 | **3,100** | 260 |
| Benzoic acid | | | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1200 | ND | 1100 | ND | 1100 | ND | 1100 | ND | 1200 | ND | 1300 | ND | 11000 | ND | 1100 |
| Benzyl butyl phthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Bis(2-chloroethoxy)methane | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Bis(2-chloroethyl)ether | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| Bis(2-chloroisopropyl)ether | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Bis(2-ethylhexyl)phthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Carbazole | | | ND | 570 | **750** | 580 | **700** | 610 | ND | 610 | ND | 570 | ND | 580 | ND | 560 | ND | 610 | **7,000** | 660 | ND | 5500 | **2,400** | 570 |
| Chrysene | 1,000 | 3,900 | **1,700** | 260 | **3,300** | 270 | **1,800** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **14,000** | 310 | ND | 2500 | **9,100** | 260 |
| Dibenz(a,h)anthracene | 330 | 330 | ND | 260 | **490** | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **1,700** | 310 | ND | 2500 | **1,000** | 260 |
| Dibenzofuran | 7,000 | 59,000 | ND | 260 | **310** | 270 | **300** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **3,400** | 310 | ND | 2500 | **1,500** | 260 |
| Diethyl phthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Dimethylphthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Di-n-butylphthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Di-n-octylphthalate | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Fluoranthene | 100,000 | 100,000 | **4,600** | 260 | **7,000** | 270 | **6,400** | 290 | ND | 290 | ND | 270 | ND | 270 | **370** | 260 | ND | 290 | **32,000** | 310 | ND | 2500 | **19,000** | 260 |
| Fluorene | 30,000 | 100,000 | ND | 260 | **600** | 270 | **470** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **5,200** | 310 | ND | 2500 | **2,200** | 260 |
| Hexachlorobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Hexachlorobutadiene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Hexachlorocyclopentadiene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Hexachloroethane | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Indeno(1,2,3-cd)pyrene | 500 | 500 | **750** | 260 | **1,300** | 270 | **840** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **4,600** | 310 | ND | 2500 | **2,900** | 260 |
| Isophorone | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Naphthalene | 12,000 | 100,000 | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **4,100** | 310 | ND | 2500 | **2,200** | 260 |
| Nitrobenzene | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| N-Nitrosodimethylamine | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| N-Nitrosodi-n-propylamine | | | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| N-Nitrosodiphenylamine | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| Pentachloronitrobenzene | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| Pentachlorophenol | 800 | 6,700 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |
| Phenanthrene | 100,000 | 100,000 | **2,700** | 260 | **6,200** | 270 | **5,000** | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | **36,000** | 310 | ND | 2500 | **21,000** | 260 |
| Phenol | 330 | 100,000 | ND | 260 | ND | 270 | ND | 290 | ND | 290 | ND | 270 | ND | 270 | ND | 260 | ND | 290 | ND | 310 | ND | 2500 | ND | 260 |
| Pyrene | 100,000 | 100,000 | **4,600** | 260 | **6,100** | 270 | **5,600** | 290 | ND | 290 | ND | 270 | ND | 270 | **730** | 260 | ND | 290 | **26,000** | 310 | ND | 2500 | **17,000** | 260 |
| Pyridine | | | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 380 | ND | 390 | ND | 370 | ND | 410 | ND | 440 | ND | 3600 | ND | 380 |

**Notes:**

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

ND - Not-detected

RL - Reporting Limit

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

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

TABLE 4
212 North 9th Street, Brooklyn, New York
Soil Analytical Results
Pesticides PCBs

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | | | B4 | | | | B5 | | | | B6 | | | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') µg/Kg | | (0-2') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | | (4-6') µg/Kg | | (0-2') µg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| 4,4' -DDD | 3.3 | 13,000 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| 4,4' -DDE | 3.3 | 8,900 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| 4,4' -DDT | 3.3 | 7,900 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| a-BHC | 20 | 480 | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Alachlor | | | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Aldrin | 5 | 97 | ND | 5.6 | ND | 5.9 | ND | 6.2 | ND | 6.2 | ND | 5.6 | ND | 5.7 | ND | 5.7 | ND | 6.1 | ND | 6.6 | ND | 5.4 | ND | 5.8 |
| b-BHC | 36 | 360 | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Chlordane | 94 | 4,200 | ND | 56 | ND | 59 | ND | 62 | ND | 62 | ND | 56 | ND | 57 | ND | 57 | ND | 61 | ND | 66 | ND | 54 | ND | 58 |
| d-BHC | 40 | 100,000 | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Dieldrin | 5 | 200 | ND | 5.6 | ND | 5.9 | ND | 8.2 | ND | 6.2 | ND | 5.6 | ND | 7.6 | ND | 5.7 | ND | 6.1 | ND | 6.6 | ND | 13 | ND | 5.8 |
| Endosulfan I | 2,400 | 24,000 | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Endosulfan II | 2,400 | 24,000 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| Endosulfan sulfate | 2,400 | 24,000 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| Endrin | 14 | 11,000 | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| Endrin aldehyde | | | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| Endrin ketone | | | ND | 36 | ND | 38 | ND | 39 | ND | 40 | ND | 36 | ND | 37 | ND | 36 | ND | 39 | ND | 42 | ND | 35 | ND | 37 |
| g-BHC | | | ND | 5.6 | ND | 5.9 | ND | 6.2 | ND | 6.2 | ND | 5.6 | ND | 5.7 | ND | 5.7 | ND | 6.1 | ND | 6.6 | ND | 5.4 | ND | 5.8 |
| Heptachlor | 42 | 2,100 | ND | 11 | ND | 12 | ND | 12 | ND | 12 | ND | 11 | ND | 11 | ND | 11 | ND | 12 | ND | 13 | ND | 11 | ND | 12 |
| Heptachlor epoxide | | | ND | 18 | ND | 19 | ND | 20 | ND | 20 | ND | 18 | ND | 18 | ND | 18 | ND | 19 | ND | 21 | ND | 17 | ND | 18 |
| Methoxychlor | | | ND | 180 | ND | 190 | ND | 200 | ND | 200 | ND | 180 | ND | 180 | ND | 180 | ND | 190 | ND | 210 | ND | 170 | ND | 180 |
| Toxaphene | | | ND | 180 | ND | 190 | ND | 200 | ND | 200 | ND | 180 | ND | 180 | ND | 180 | ND | 190 | ND | 210 | ND | 170 | ND | 180 |
| PCB-1016 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1221 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1232 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1242 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1248 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1254 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1260 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1262 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |
| PCB-1268 | 100 | 1,000 | ND | 380 | ND | 390 | ND | 410 | ND | 410 | ND | 370 | ND | 380 | ND | 380 | ND | 400 | ND | 440 | ND | 360 | ND | 380 |

**Notes:**

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

ND - Non-Detect

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

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

TABLE 5
212 North 9th Street, Brooklyn, New York
Soil Analytical Results
Metals

| COMPOUND | NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives | NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives* | B1 | | B2 | | B3 | | | | B4 | | | | B5 | | | | B6 | | | | Duplicate | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | (0-2') mg/Kg | | (0-2') mg/Kg | | (0-2') mg/Kg | | (4-6') mg/Kg | | (0-2') mg/Kg | | (4-6') mg/Kg | | (0-2') mg/Kg | | (4-6') mg/Kg | | (0-2') mg/Kg | | (4-6') mg/Kg | | (0-2') mg/Kg | |
| | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| Aluminum | | | 6,780 | 53 | 6,540 | 57 | 3,340 | 62 | 8,560 | 57 | 10600 | 54 | 10,600 | 52 | 12,600 | 55 | 13,300 | 64 | 7,100 | 63 | 11,700 | 55 | 8,320 | 53 |
| Antimony | | | BRL | 3.5 | BRL | 3.8 | BRL | 4.1 | BRL | 3.8 | BRL | 3.6 | BRL | 3.5 | BRL | 3.7 | BRL | 4.3 | 43.6 | 4.2 | BRL | 3.7 | BRL | 3.5 |
| Arsenic | 13 | 16 f | 6 | 0.7 | 15.6 | 0.8 | 10.2 | 0.8 | 5.3 | 0.8 | 4.9 | 0.7 | 3.6 | 0.7 | 3.6 | 0.7 | 4.4 | 0.9 | 125 | 0.8 | 22 | 0.7 | 7.5 | 0.7 |
| Barium | 350 c | 400 | 145 | 0.35 | 6,540 | 3.8 | 82.7 | 0.41 | 51.9 | 0.38 | 104 | 0.36 | 70.3 | 0.35 | 58.5 | 0.37 | 57.2 | 0.43 | 7,380 | 4.2 | 644 | 0.37 | 251 | 0.35 |
| Beryllium | 7.2 | 72 | 0.4 | 0.28 | 0.45 | 0.3 | BRL | 0.33 | 0.43 | 0.3 | 0.54 | 0.29 | 0.46 | 0.28 | 0.61 | 0.29 | 0.52 | 0.34 | 1.26 | 0.34 | 0.74 | 0.29 | 0.53 | 0.28 |
| Cadmium | 2.5 c | 4.3 | 0.76 | 0.35 | 4.29 | 0.38 | BRL | 0.41 | BRL | 0.38 | BRL | 0.36 | BRL | 0.35 | BRL | 0.37 | BRL | 0.43 | 6.96 | 0.42 | 1.36 | 0.37 | 0.57 | 0.35 |
| Calcium | | | 10,200 | 53 | 25,400 | 57 | 3,450 | 6.2 | 2,920 | 5.7 | 10,300 | 54 | 2,500 | 52 | 1,650 | 55 | 1,120 | 6.4 | 29,100 | 63 | 10,500 | 55 | 10,900 | 53 |
| Chromium | 30 c | 180 - trivalent | 16.8 | 0.35 | 69.9 | 0.38 | 13.5 | 0.41 | 32 | 0.38 | 19.3 | 0.36 | 17.4 | 0.35 | 31 | | 20.6 | 0.43 | 496 | 4.2 | 44.9 | 0.37 | 25.5 | 0.35 |
| Cobalt | | | 6.88 | 0.35 | 5.76 | 0.38 | 4.4 | 0.41 | 10.1 | 0.38 | 8.39 | 0.36 | 6.48 | 0.35 | 8.54 | 0.37 | 7.1 | 0.43 | 9.19 | 0.42 | 7.64 | 0.37 | 6.88 | 0.35 |
| Copper | 50 | 270 | 46.1 | 0.35 | 55.8 | 0.38 | 41.4 | 0.41 | 23.6 | 0.38 | 20 | 0.36 | 20.2 | 0.35 | 18 | 0.37 | 15.2 | 0.43 | 157 | 0.42 | 74.7 | 0.37 | 70.4 | 0.35 |
| Iron | | | 15,900 | 53 | 14,900 | 57 | 9550 | 62 | 32,300 | 57 | 23100 | 54 | 16,900 | 52 | 26,000 | 55 | 21,800 | 64 | 45,700 | 63 | 41,000 | 55 | 20,500 | 53 |
| Lead | 63 c | 400 | 135 | 3.5 | 1,010 | 3.8 | 165 | 4.1 | 25 | 0.38 | 46 | 0.36 | 58 | 0.35 | 14 | 0.37 | 52 | 0.43 | 6,620 | 42 | 253 | 3.7 | 237 | 3.5 |
| Magnesium | | | 2,680 | 5.3 | 2,420 | 5.7 | 849 | 6.2 | 2,040 | 5.7 | 2,420 | 54 | 2,200 | 52 | 2,430 | 55 | 2,450 | 64 | 2,580 | 63 | 3,410 | 55 | 2,580 | 53 |
| Manganese | 1,600 c | 2,000 c | 258 | 3.5 | 384 | 3.8 | 108 | 0.41 | 653 | 3.8 | 620 | 3.6 | 345 | 3.5 | 359 | 4 | 379 | 4.3 | 1230 | 4.2 | 298 | 3.7 | 278 | 3.5 |
| Mercury | 0.18 c | 0.81 j | 0.39 | 0.08 | 0.48 | 0.08 | 0.45 | 0.09 | 0.32 | 0.08 | 0.55 | 0.08 | 0.11 | 0.08 | 2.69 | 0.07 | 0.4 | 0.08 | 1.46 | 0.08 | 0.18 | 0.07 | 0.86 | 0.08 |
| Nickel | 30 | 310 | 13.9 | 0.35 | 11.2 | 0.38 | 11.7 | 0.41 | 17 | 0.38 | 12.3 | 0.36 | 11.1 | 0.35 | 13.6 | 0.37 | 13.8 | 0.43 | 15.7 | 0.42 | 35.8 | 0.37 | 15.7 | 0.35 |
| Potassium | | | 1,230 | 5.3 | 1,120 | 5.7 | 747 | 6.2 | 1450 | 5.7 | 1,530 | 5.4 | 1,330 | 5.2 | 1,840 | 5.5 | 1,490 | 6.4 | 1,250 | 6.3 | 1,910 | 5.5 | 1,250 | 5.3 |
| Selenium | 3.9c | 180 | BRL | 1.4 | BRL | 1.5 | BRL | 1.6 | BRL | 1.5 | BRL | 1.4 | BRL | 1.4 | BRL | 2 | BRL | 1.7 | BRL | 1.7 | BRL | 1.5 | BRL | 1.4 |
| Silver | 2 | 180 | BRL | 0.35 | BRL | 0.38 | BRL | 0.41 | BRL | 0.38 | BRL | 0.36 | BRL | 0.35 | BRL | 0.37 | BRL | 0.43 | BRL | 0.42 | BRL | 0.37 | BRL | 0.35 |
| Sodium | | | 190 | 5.3 | 861 | 5.7 | 133 | 6.2 | 179 | 5.7 | 180 | 5.4 | 66.4 | 5.2 | 84 | 5.5 | 49 | 6.4 | 1240 | 6.3 | 553 | 5.5 | 356 | 5.3 |
| Thallium | | | BRL | 0.6 | BRL | 0.6 | BRL | 0.7 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.6 | BRL | 0.7 | BRL | 0.7 | BRL | 0.6 | BRL | 0.6 |
| Vanadium | | | 24.2 | 0.35 | 26.5 | 0.38 | 14.9 | 0.41 | 31.9 | 0.38 | 31 | 0.36 | 30.5 | 0.35 | 38.3 | 0.37 | 33.8 | 0.43 | 37 | 0.42 | 45.1 | 0.37 | 27.2 | 0.35 |
| Zinc | 109 c | 10,000 | 224 | 3.5 | 2,630 | 38 | 122 | 0.41 | 58.1 | 0.38 | 139 | 0.36 | 33.1 | 0.35 | 36 | 0 | 30 | 0 | 5,240 | 42 | 200 | 3.7 | 387 | 3.5 |

**Notes:**

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

BRL - Below Reporting Limit

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

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

TABLE 6
212 North 9th Street, Brooklyn, New York
Groundwater Analytical Results
Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW2 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,1,1,2-Tetrachlorothane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,1,1-Trichloroethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,1,2,2-Tetrachloroethane | 5 | ND | 0.5 | ND | 1 | ND | 0.5 | ND | 1 |
| 1,1,2-Trichloroethane | 1 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,1-Dichloroethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,1-Dichloroethene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,1-Dichloropropene | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2,3-Trichlorobenzene | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2,3-Trichloropropane | 0.04 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2,4-Trichlorobenzene | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2,4-Trimethylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2-Dibromo-3-chloropropane | 0.04 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2-Dichlorobenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2-Dichloroethane | 0.6 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2-Dichloropropane | 0.94 | ND | 0.6 | ND | 1.2 | ND | 0.6 | ND | 1.2 |
| 1,3,5-Trimethylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,2-Dibromoethane | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,3-Dichlorobenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,3-Dichloropropane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 1,4-Dichlorobenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 2,2-Dichloropropane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 2-Chlorotoluene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 2-Hexanone (Methyl Butyl Ketone) | | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| 2-Isopropyltoluene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 4-Chlorotoluene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| 4-Methyl-2-Pentanone | | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| Acetone | | ND | 25 | ND | 50 | ND | 25 | ND | 50 |
| Acrylonitrile | 5 | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| Benzene | 1 | ND | 0.7 | ND | 1.4 | ND | 0.7 | ND | 1.4 |
| Bromobenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Bromochloromethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Bromodichloromethane | | ND | 0.5 | ND | 1 | ND | 0.5 | ND | 1 |
| Bromoform | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Bromomethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Carbon Disulfide | 60 | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| Carbon tetrachloride | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Chlorobenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Chloroethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Chloroform | 7 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Chloromethane | 60 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| cis-1,2-Dichloroethene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| cis-1,3-Dichloropropene | | ND | 0.5 | ND | 1 | ND | 0.5 | ND | 1 |
| Dibromochloromethane | | ND | 0.5 | ND | 1 | ND | 0.5 | ND | 1 |
| Dibromomethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Dichlorodifluoromethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Ethylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Hexachlorobutadiene | 0.5 | ND | 0.4 | ND | 0.8 | ND | 0.4 | ND | 0.8 |
| Isopropylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| m&p-Xylenes | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Methyl Ethyl Ketone (2-Butanone) | | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| Methyl t-butyl ether (MTBE) | 10 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Methylene chloride | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Naphthalene | 10 | ND | 1 | **4.9** | 2 | ND | 1 | **5.9** | 2 |
| n-Butylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| n-Propylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| o-Xylene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| p-Isopropyltoluene | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| sec-Butylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Styrene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| tert-Butylbenzene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Tetrachloroethene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Tetrahydrofuran (THF) | | ND | 2.5 | ND | 5 | ND | 2.5 | ND | 5 |
| Toluene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Total Xylenes | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| trans-1,2-Dichloroethene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| trans-1,3-Dichloropropene | 0.4 | ND | 0.5 | ND | 1 | ND | 0.5 | ND | 1 |
| trans-1,4-dichloro-2-butene | 5 | ND | 5 | ND | 10 | ND | 5 | ND | 10 |
| Trichloroethene | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Trichlorofluoromethane | 5 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Trichlorotrifluoroethane | | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Vinyl Chloride | 2 | ND | 1 | ND | 2 | ND | 1 | ND | 2 |
| Total VOCs | | **0** | | **4.9** | | **0** | | **5.9** | |

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

TABLE 7
212 North 9th Street, Brooklyn, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW2 µg/L | | MW3 µg/L | | Duplicate (MW2) µg/L | |
|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL |
| 1,2,4-Trichlorobenzene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,2-Dichlorobenzene | 3 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,2-Diphenylhydrazine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,3-Dichlorobenzene | 3 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 1,4-Dichlorobenzene | 3 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2,4,5-Trichlorophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4,6-Trichlorophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dichlorophenol | 1 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dimethylphenol | 1 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2,4-Dinitrophenol | 1 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 2,4-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2,6-Dinitrotoluene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Chloronaphthalene | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 2-Chlorophenol | | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2-Methylnaphthalene | | ND | 5 | **16** | 5 | ND | 5 | **14** | 5 |
| 2-Methylphenol (o-cresol) | 1 | ND | 10 | **130** | 10 | ND | 10 | **100** | 10 |
| 2-Nitroaniline | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 2-Nitrophenol | 1 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 3&4-Methylphenol (m&p-cresol) | 1 | ND | 10 | **390** | 10 | ND | 10 | **310** | 10 |
| 3,3'-Dichlorobenzidine | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 3-Nitroaniline | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 4,6-Dinitro-2-methylphenol | 1 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| 4-Bromophenyl phenyl ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Chloro-3-methylphenol | 1 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Chloroaniline | 5 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Chlorophenyl phenyl ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| 4-Nitroaniline | 5 | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 4-Nitrophenol | 1 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Acetophenone | | ND | 10 | ND | 5 | ND | 10 | ND | 5 |
| Aniline | 5 | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Anthracene | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Benzidine | 5 | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Benzoic acid | | ND | 50 | ND | 50 | ND | 50 | ND | 50 |
| Benzyl butyl phthalate | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroethoxy)methane | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroethyl)ether | 1 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Bis(2-chloroisopropyl)ether | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Carbazole | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Dibenzofuran | $7 \times 10^{-7}$ | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Diethyl phthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Dimethylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Di-n-butylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Di-n-octylphthalate | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Fluoranthene | 50 | ND | 5 | **9.4** | 5 | ND | 5 | **10** | 5 |
| Fluorene | 50 | ND | 5 | **7.2** | 5 | ND | 5 | **6.3** | 5 |
| Hexachlorobutadiene | 0.5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Hexachlorocyclopentadiene | 5 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Isophorone | 50 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Naphthalene | 10 | ND | 5 | **15** | 5 | ND | 5 | **13** | 5 |
| Nitrobenzene | 0.4 | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodimethylamine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodi-n-propylamine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| N-Nitrosodiphenylamine | | ND | 5 | ND | 5 | ND | 5 | ND | 5 |
| Phenol | 1 | ND | 10 | **98** | 10 | ND | 10 | **76** | 10 |
| Pyrene | 50 | ND | 5 | **8.7** | 5 | ND | 5 | **9** | 5 |
| 1,2,4,5-Tetrachlorobenzene | 5 | ND | 1.6 | ND | 1.6 | ND | 1.6 | ND | 1.6 |
| Acenaphthene | 20 | ND | 0.05 | **6.6** | 0.05 | ND | 0.05 | **5.3** | 0.05 |
| Acenaphthylene | | ND | 0.05 | **0.97** | 0.05 | ND | 0.05 | **0.82** | 0.05 |
| Benzo(a)anthracene | 0.002 | **0.16** | 0.04 | **3.7** | 0.04 | **0.14** | 0.04 | **4.2** | 0.04 |
| Benzo(a)pyrene | | **0.15** | 0.05 | **3.4** | 0.05 | **0.12** | 0.05 | **3.8** | 0.05 |
| Benzo(b)fluoranthene | 0.002 | **0.17** | 0.05 | **4.3** | 0.05 | **0.13** | 0.05 | **4.4** | 0.05 |
| Benzo(ghi)perylene | | ND | 3 | ND | 3 | ND | 3 | ND | 3 |
| Benzo(k)fluoranthene | 0.002 | **0.08** | 0.05 | **1.4** | 0.05 | **0.06** | 0.05 | **1.8** | 0.05 |
| Bis(2-ethylhexyl)phthalate | | ND | 1.6 | ND | 1.6 | **6.6** | 1.6 | ND | 1.6 |
| Chrysene | 0.002 | **0.15** | 0.05 | **3.5** | 0.05 | **0.13** | 0.05 | **3.8** | 0.05 |
| Dibenz(a,h)anthracene | | ND | 0.01 | **0.53** | 0.01 | ND | 0.01 | **0.57** | 0.01 |
| Hexachlorobenzene | 0.4 | ND | 0.06 | ND | 0.06 | ND | 0.06 | ND | 0.06 |
| Hexachloroethane | 5 | ND | 2.4 | ND | 2.4 | ND | 2.4 | ND | 2.4 |
| Indeno(1,2,3-cd)pyrene | 0.002 | **0.09** | 0.05 | **2.3** | 0.05 | **0.07** | 0.05 | **2.7** | 0.05 |
| Pentachloronitrobenzene | ND | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| Pentachlorophenol | 1 | ND | 0.8 | ND | 0.8 | ND | 0.8 | ND | 0.8 |
| Phenanthrene | 50 | **0.23** | 0.05 | **16** | 0.05 | **0.17** | 0.05 | **15** | 0.05 |
| Pyridine | | ND | 0.5 | ND | 0.5 | ND | 0.5 | ND | 0.5 |

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

TABLE 8
212 North 9th Street, Brooklyn, New York
Groundwater Analytical Results
Pesticides/PCBs

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 (mg/L) | | MW2 (mg/L) | | MW3 (mg/L) | | Duplicate (mg/L) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL |
| **PCB-1016** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1221** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1232** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1242** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1248** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1254** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1260** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1262** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **PCB-1268** | **0.09** | ND | 0.1 | ND | 0.1 | ND | 0.1 | ND | 0.1 |
| **4,4-DDD** | **0.3** | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **4,4-DDE** | **0.2** | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **4,4-DDT** | **0.11** | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **a-BHC** | **0.94** | ND | 0.025 | ND* | 0.26 | ND | 0.025 | ND* | 0.26 |
| **Alachlor** | | ND | 0.075 | ND* | 0.77 | ND | 0.075 | ND* | 0.76 |
| **Aldrin** | | ND | 0.002 | ND* | 0.015 | ND | 0.002 | ND* | 0.015 |
| **b-BHC** | **0.04** | ND | 0.005 | ND* | 0.052 | ND | 0.005 | ND* | 0.051 |
| **Chlordane** | **0.05** | ND | 0.3 | ND* | 3.1 | ND | 0.3 | ND* | 3.1 |
| **d-BHC** | **0.04** | ND | 0.025 | ND* | 0.26 | ND | 0.025 | ND* | 0.26 |
| **Dieldrin** | **0.004** | ND | 0.002 | ND* | 0.015 | ND | 0.002 | ND* | 0.015 |
| **Endosulfan I** | | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **Endosulfan II** | | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **Endosulfan Sulfate** | | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **Endrin** | | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **Endrin aldehyde** | **5** | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **Endrin ketone** | | ND | 0.05 | ND* | 0.52 | ND | 0.05 | ND* | 0.51 |
| **gamma-BHC** | **0.05** | ND | 0.025 | ND* | 0.26 | ND | 0.025 | ND* | 0.26 |
| **Heptachlor** | **0.04** | ND | 0.025 | ND* | 0.26 | ND | 0.025 | ND* | 0.26 |
| **Heptachlor epoxide** | **0.03** | ND | 0.025 | ND* | 0.26 | ND | 0.025 | ND* | 0.26 |
| **Methoxychlor** | **35** | ND | 0.1 | ND* | 1 | ND | 0.1 | ND* | 1 |
| **Toxaphene** | | ND | 1 | ND* | 10 | ND | 1 | ND* | 10 |

**Notes:**
ND - Non-detect
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

Table 9
212 North 9th Street, Brooklyn, New York
Groundwater Analytical Results
TAL Metals

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 (mg/L) | | MW2 (mg/L) | | MW3 (mg/L) | | Duplicate (mg/L) | |
|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL |
| **Aluminum** | **NS** | **0.428** | 0.01 | **6.75** | 0.01 | **0.717** | 0.01 | 11.2 | 0.01 |
| **Antimony** | **0.003** | BRL | 0.005 | BRL | 0.005 | BRL | 0.005 | BRL | 0.005 |
| **Arsenic** | **0.025** | BRL | 0.004 | 0.01 | 0.004 | BRL | 0.004 | **0.012** | 0.004 |
| **Barium** | **1** | **0.187** | 0.002 | **3.35** | 0.002 | **0.079** | 0.002 | **5.2** | 0.002 |
| **Beryllium** | **0.003** | BRL | 0.001 | BRL | 0.001 | BRL | 0.001 | BRL | 0.001 |
| **Cadmium** | **0.005** | BRL | 0.001 | 0.004 | 0.001 | BRL | 0.001 | 0.005 | 0.001 |
| **Calcium** | **NS** | **150** | 0.01 | **181** | 0.1 | **109** | 0.01 | **175** | 0.01 |
| **Chromium** | **0.050** | BRL | 0.001 | 0.019 | 0.001 | 0.002 | 0.001 | **0.034** | 0.001 |
| **Cobalt** | **NS** | **0.002** | 0.002 | 0.007 | 0.002 | **0.005** | 0.002 | **0.01** | 0.002 |
| **Copper** | **0.2** | BRL | 0.005 | **0.036** | 0.005 | BRL | 0.005 | **0.054** | 0.005 |
| **Iron** | **0.5** | **1.3** | 0.01 | **10.0** | 0.01 | **2.42** | 0.01 | **15.8** | 0.01 |
| **Lead** | **0.25** | BRL | 0.002 | **0.38** | 0.002 | BRL | 0.002 | **0.508** | 0.002 |
| **Magnesium** | **35** | **15.9** | 0.01 | **10.0** | 0.01 | **34.8** | 0.01 | **10.8** | 0.01 |
| **Manganese** | **0.3** | **1.0** | 0.001 | **0.56** | 0.001 | **1.33** | 0.001 | **0.584** | 0.001 |
| **Mercury** | **0.0007** | BRL | 0.0002 | BRL | 0.0002 | BRL | 0.0002 | BRL | 0.0002 |
| **Nickel** | **0.1** | **0.004** | 0.001 | **0.017** | 0.001 | **0.008** | 0.001 | **0.023** | 0.001 |
| **Potassium** | **NS** | **14** | 0.1 | **6.4** | 0.1 | **33.1** | 0.1 | **7.3** | 0.1 |
| **Selenium** | **0.1** | BRL | 0.01 | BRL | 0.01 | BRL | 0.01 | BRL | 0.01 |
| **Silver** | **0.5** | BRL | 0.001 | BRL | 0.001 | BRL | 0.001 | BRL | 0.001 |
| **Sodium** | **2** | **35.3** | 0.1 | **17** | 0.1 | **81.1** | 1 | **16.3** | 0.1 |
| **Thallium** | **0.005** | BRL | 0.002 | BRL | 0.002 | BRL | 0.002 | BRL | 0.002 |
| **Vanadium** | **NS** | BRL | 0.002 | 0.018 | 0.002 | BRL | 0.002 | 0.027 | 0.002 |
| **Zinc** | **2** | BRL | 0.002 | **5.92** | 0.02 | BRL | 0.002 | **6.21** | 0.02 |

**Notes:**
ND - ND
**NS - No Standard**
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

Table 10
212 North 9th Street, Brooklyn, New York
Groundwater Analytical Results
TAL Filtered Metals

| Compound | NYSDEC Groundwater Quality Standards µg/L | MW1 µg/L | | MW2 µg/L | | MW3 µg/L | | Duplicate µg/L | |
|---|---|---|---|---|---|---|---|---|---|
| | | Result | RL | Result | RL | Result | RL | Result | RL |
| **Aluminum** | **NS** | **0.04** | 0.01 | **0.04** | - | **0.06** | 0.01 | - | - |
| **Antimony** | **0.003** | BRL | 0.005 | BRL | - | BRL | 0.005 | - | - |
| **Arsenic** | **0.025** | BRL | 0.004 | BRL | - | **0.005** | 0.004 | - | - |
| **Barium** | **1** | **0.187** | 0.002 | **0.110** | - | **0.076** | 0.002 | - | - |
| **Beryllium** | **0.003** | BRL | 0.001 | BRL | - | BRL | 0.001 | - | - |
| **Cadmium** | **0.005** | BRL | 0.001 | BRL | - | BRL | 0.001 | - | - |
| **Calcium** | **NS** | **152** | 0.01 | **189** | - | **112** | 0.01 | - | - |
| **Chromium** | **0.050** | BRL | 0.001 | BRL | - | BRL | 0.001 | - | - |
| **Cobalt** | **NS** | **0.003** | 0.001 | **0.004** | - | **0.006** | 0.001 | - | - |
| **Copper** | **0.2** | BRL | 0.005 | **0.007** | - | BRL | 0.005 | - | - |
| **Iron** | **0.5** | **0.1** | 0.011 | **0.059** | - | **0.12** | 0.011 | - | - |
| **Lead** | **0.25** | BRL | 0.002 | **0.004** | - | BRL | 0.002 | - | - |
| **Magnesium** | **35** | **16.1** | 0.01 | **8.57** | - | **35.5** | 0.01 | - | - |
| **Manganese** | **0.3** | **1.0** | 0.001 | **0.551** | - | **1.37** | 0.001 | - | - |
| **Mercury** | **0.0007** | BRL | 0.0002 | BRL | - | BRL | 0.0002 | - | - |
| **Nickel** | **0.1** | **0.004** | 0.001 | **0.008** | - | **0.008** | 0.001 | - | - |
| **Potassium** | **NS** | **14.9** | 0.1 | **6.6** | - | **33.9** | 0.1 | - | - |
| **Selenium** | **0.1** | BRL | 0.011 | BRL | - | BRL | 0.011 | - | - |
| **Silver** | **0.5** | BRL | 0.001 | BRL | - | BRL | 0.001 | - | - |
| **Sodium** | **2** | **38.2** | 0.11 | **24.1** | - | **85.3** | 1.1 | - | - |
| **Thallium** | **0.005** | BRL | 0.002 | BRL | - | BRL | 0.002 | - | - |
| **Vanadium** | **NS** | BRL | 0.002 | BRL | - | BRL | 0.002 | - | - |
| **Zinc** | **2** | BRL | 0.002 | **4.42** | - | BRL | 0.002 | - | - |

**Notes:**
ND - ND
**NS - No Standard**
**Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard**

TABLE 11
212 North 9th Street, Brooklyn, New York
Soil Gas - Volatile Organic Compounds

| COMPOUNDS | NYSDOH Maximum Sub-Slab Value (µg/m³) [a] | NYSDOH Soil Outdoor Background Levels (µg/m³) [b] | SG-1 (µg/m³) | | SG-3 (µg/m³) | | SG-4 (µg/m³) | | SG-5 (µg/m³) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | RL | Result | RL | Result | RL | Result | RL | Result |
| 1,1,1,2-Tetrachloroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,1-Trichloroethane | 100 | <2.0 - 2.8 | **2.24** | 1 | **4.03** | 1 | **2.24** | 1 | **5.83** | 1 |
| 1,1,2,2-Tetrachloroethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1,2-Trichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,1-Dichloroethene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2,4-Trimethylbenzene | | <1.0 | **1.3** | 1 | **2.11** | 1 | **1.62** | 1 | **3.78** | 1 |
| 1,2-Dibromoethane | | <1.5 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorobenzene | | <2.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloroethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichloroethene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,2-Dichlorotetrafluoroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3,5-Trimethylbenzene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Butadiene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,3-Dichlorobenzene | | <2.0 | **1.98** | 1 | **1.92** | 1 | **1.74** | 1 | **1.8** | 1 |
| 1,4-Dichlorobenzene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 1,4-Dioxane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 2-Hexanone | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Ethyltoluene | | NA | ND | 1 | **1.33** | 1 | ND | 1 | **1.57** | 1 |
| 4-Isopropyltoluene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| 4-Methyl-2-pentanone | | | ND | 1 | **1.02** | 1 | ND | 1 | **1.1** | 1 |
| Acetone | | NA | **275** | 1 | **271** | 1 | **148** | 1 | **256** | 1 |
| Acrylonitrile | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Benzene | | <1.6 - 4.7 | **21.9** | 1 | **15.2** | 1 | **18.2** | 1 | **11.6** | 1 |
| Benzyl Chloride | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromodichloromethane | | <5.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromoform | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Bromomethane | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Carbon Disulfide | | NA | **18.3** | 1 | **9.02** | 1 | **13.5** | 1 | **17.5** | 1 |
| Carbon Tetrachloride | 5 | <3.1 | **0.629** | 0.25 | **0.566** | 0.25 | **0.566** | 0.25 | **0.566** | 0.25 |
| Chlorobenzene | | <2.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroethane | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Chloroform | | <2.4 | **2.34** | 1 | ND | 1 | **9.81** | 1 | **7.86** | 1 |
| Chloromethane | | <1.0 - 1.4 | ND | 1 | **1.42** | 1 | ND | 1 | ND | 1 |
| cis-1,2-Dichloroethene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| cis-1,3-Dichloropropene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Cyclohexane | | NA | **1.79** | 1 | ND | 1 | **18.1** | 1 | ND | 1 |
| Dibromochloromethane | | <5.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Dichlorodifluromethane | | NA | **56.3** | 1 | **2.32** | 1 | **170** | 1 | **101** | 1 |
| Ethanol | | | **31.6** | 1 | **37.3** | 1 | **78.9** | 1 | **24.3** | 1 |
| Ethyl Acetate | | NA | ND | 1 | ND | 1 | **13.9** | 1 | ND | 1 |
| Ethylbenzene | | <4.3 | **10** | 1 | **15.5** | 1 | **9.94** | 1 | **15.4** | 1 |
| Heptane | | NA | **31.6** | 1 | **21.5** | 1 | **22.7** | 1 | **14.4** | 1 |
| Hexachlorobutadiene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Hexane | | <1.5 | **23.7** | 1 | **19.2** | 1 | **26.9** | 1 | **13** | 1 |
| Isopropylalcohol | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Isopropylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Xylene (m&p) | | <4.3 | **28.4** | 1 | **49.5** | 1 | **31.7** | 1 | **55.1** | 1 |
| Methyl Ethyl Ketone | | | **6.34** | 1 | **8.25** | 1 | ND | 1 | **14.4** | 1 |
| MTBE | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Methylene Chloride | | <3.4 | **1.7** | 1 | **1.22** | 1 | ND | 1 | **1.49** | 1 |
| n-Butylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Xylene (o) | | <4.3 | **6.94** | 1 | **11.5** | 1 | **7.38** | 1 | **14** | 1 |
| Propylene | | NA | **13.8** | 1 | **4.9** | 1 | **101** | 1 | **11.6** | 1 |
| sec-Butylbenzene | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Styrene | | <1.0 | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Tetrachloroethene | 100 | | **8** | 0 | **2.78** | 0 | **1.63** | 0.25 | **3.86** | 0.25 |
| Tetrahydrofuran | | NA | **1.03** | 1 | ND | 1 | ND | 1 | ND | 1 |
| Toluene | | 1.0 - 6.1 | **103** | 1 | **111** | 1 | **72.3** | 1 | **73.4** | 1 |
| trans-1,2-Dichloroethene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| trans-1,3-Dichloropropene | | NA | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Trichloroethene | 5 | <1.7 | **0.591** | 0.25 | **0.376** | 0.25 | **0.43** | 0.25 | **0.591** | 0.25 |
| Trichlorofluoromethane | | NA | **199** | 1 | **62.3** | 1 | **340** | 1 | 187 | 1 |
| Trichlorotrifluoroethane | | | ND | 1 | ND | 1 | ND | 1 | ND | 1 |
| Vinyl Chloride | | <1.0 | ND | 0.25 | ND | 0.25 | ND | 0.25 | ND | 0.25 |
| | | | | | | | | | | |
| *Total PVOCs** | | | 281.38 | | 298.31 | | 402.64 | | 253.65 | |
| *Total BTEX*** | | | 170.24 | | 202.7 | | 139.52 | | 169.5 | |
| *Total VOCs**** | | | 572 | | 384.262 | | 942.556 | | 581.147 | |

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

# ***2007 TABLES***

# Table 1
## 212-218 North 9th Street, Brooklyn, NY
## Volatile Organic Compounds (Method 8260)
## Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/26/07 | 12/27/07 | 12/27/07 | 12/27/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Acetone | 67-64-1 | <50 | <1000 (E) | <1000 (D) | <1000 (E) | 50 | 200 |
| Benzene | 71-43-2 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 60 |
| Bromobenzene | 108-86-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Bromochloromethane | 74-97-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Bromodichloromethane | 75-27-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Bromoform | 75-25-2 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Bromomethane | 74-83-9 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 2-Butanone | 78-93-3 | <10 | <200 (E) | <200 (D) | <200 (E) | 10 | 300 |
| Carbon disulfide | 75-15-0 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 2,700 |
| Carbon tetrachloride | 56-23-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 600 |
| Chlorobenzene | 108-90-7 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,700 |
| Chloroethane | 75-00-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,900 |
| 2-Chloroethyl vinyl ether | 110-75-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Chloroform | 67-66-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 300 |
| Chloromethane | 74-87-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 2-Chlorotoluene | 95-49-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 4-Chlorotoluene | 106-43-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| cis-1,2-Dichloroethylene | 156-59-2 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| cis-1,3-Dichloropropene | 10061-01-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Dibromochloromethane | 124-48-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | N/A |
| 1,2-Dibromoethane | 106-93-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Dibromomethane | 74-95-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,2-Dichlorobenzene | 95-50-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 7,900 |
| 1,3-Dichlorobenzene | 541-73-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,600 |
| 1,4-Dichlorobenzene | 106-46-7 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 8,500 |
| Dichlorodifluoromethane | 75-71-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,1-Dichloroethane | 75-34-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 200 |
| 1,2-Dichloroethane | 107-06-2 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 100 |
| 1,1-Dichloroethylene | 75-35-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 400 |
| 1,2-Dichloropropane | 78-87-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,3-Dichloropropane | 142-28-9 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 300 |
| 2,2-Dichloropropane | 590-20-7 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,1-Dichloropropene | 563-58-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Ethylbenzene | 100-41-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 5,500 |
| Hexachlorobutadiene | 87-68-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |

## Table 1 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Volatile Organic Compounds (Method 8260)
## Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/26/07 | 12/27/07 | 12/27/07 | 12/27/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| 2-Hexanone | 591-78-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Isopropyl benzene | 98-82-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| m,p-Xylene | 1330-20-7 | <10 | <200 (E) | <200 (D) | <200 (E) | 10 | 1,200 |
| 4-Methyl-2-pentanone | 108-10-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,000 |
| MTBE | 1634-04-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | |
| Methylene Chloride | 75-09-2 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 100 |
| Naphthalene | 91-20-3 | <5 | 418 | 127 | 373 | 5 | 13,000 |
| n-Butylbenzene | 104-51-8 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| n-Propylbenzene | 103-65-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| o-Xylene | 95-47-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,200 |
| p-Isopropyltoluene | 99-87-6 | <5 | <100 (E) | 209 | <100 (E) | 5 | -- |
| sec-Butylbenzene | 135-98-8 | <5 | <100 (E) | 177 | <100 (E) | 5 | -- |
| Styrene | 100-42-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| tert-Butylbenzene | 98-06-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 600 |
| Tetrachloroethylene | 127-18-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,400 |
| Toluene | 108-88-3 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 1,500 |
| trans-1,2-Dichloroethylene | 156-60-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 300 |
| trans-1,3-Dichloropropene | 10061-02-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,2,3-Trichlorobenzene | 87-61-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,2,4-Trichlorobenzene | 120-82-1 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 3,400 |
| 1,1,1-Trichloroethane | 71-55-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 800 |
| 1,1,2-Trichloroethane | 79-00-5 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Trichloroethylene | 79-01-6 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 700 |
| Trichlorofluoromethane | 75-69-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| 1,2,3-Trichloropropane | 96-18-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 400 |
| 1,2,4-Trimethylbenzene | 95-63-6 | <5 | <100 (E) | 1,094 | <100 (E) | 5 | -- |
| 1,3,5-Trimethylbenzene | 108-67-8 | <5 | <100 (E) | 671 | <100 (E) | 5 | -- |
| Vinyl Acetate | 108-05-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | -- |
| Vinyl Chloride | 75-01-4 | <5 | <100 (E) | <100 (D) | <100 (E) | 5 | 200 |

Notes:

MDL - Minimum detection limit

D - Minimum detection limit raised due to target compound

E - Minimum detection limit raised due to non-target compound interference

# Table 1
# 212-218 North 9th Street, Brooklyn, NY
# Volatile Organic Compounds (Method 8260)
# Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/28/07 | 12/28/07 | 12/28/07 | 12/28/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Acetone | 67-64-1 | <250 (D) | <50 | <50 | <50 | 50 | 200 |
| Benzene | 71-43-2 | <25 (D) | <5 | <5 | <5 | 5 | 60 |
| Bromobenzene | 108-86-1 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Bromochloromethane | 74-97-5 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Bromodichloromethane | 75-27-4 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Bromoform | 75-25-2 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Bromomethane | 74-83-9 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 2-Butanone | 78-93-3 | <50 (D) | <10 | <10 | <10 | 10 | 300 |
| Carbon disulfide | 75-15-0 | <25 (D) | <5 | <5 | <5 | 5 | 2,700 |
| Carbon tetrachloride | 56-23-5 | <25 (D) | <5 | <5 | <5 | 5 | 600 |
| Chlorobenzene | 108-90-7 | <25 (D) | <5 | <5 | <5 | 5 | 1,700 |
| Chloroethane | 75-00-3 | <25 (D) | <5 | <5 | <5 | 5 | 1,900 |
| 2-Chloroethyl vinyl ether | 110-75-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Chloroform | 67-66-3 | <25 (D) | <5 | <5 | <5 | 5 | 300 |
| Chloromethane | 74-87-3 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 2-Chlorotoluene | 95-49-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 4-Chlorotoluene | 106-43-4 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| cis-1,2-Dichloroethylene | 156-59-2 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| cis-1,3-Dichloropropene | 10061-01-5 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Dibromochloromethane | 124-48-1 | <25 (D) | <5 | <5 | <5 | 5 | N/A |
| 1,2-Dibromoethane | 106-93-4 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Dibromomethane | 74-95-3 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,2-Dichlorobenzene | 95-50-1 | <25 (D) | <5 | <5 | <5 | 5 | 7,900 |
| 1,3-Dichlorobenzene | 541-73-1 | <25 (D) | <5 | <5 | <5 | 5 | 1,600 |
| 1,4-Dichlorobenzene | 106-46-7 | <25 (D) | <5 | <5 | <5 | 5 | 8,500 |
| Dichlorodifluoromethane | 75-71-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,1-Dichloroethane | 75-34-3 | <25 (D) | <5 | <5 | <5 | 5 | 200 |
| 1,2-Dichloroethane | 107-06-2 | <25 (D) | <5 | <5 | <5 | 5 | 100 |
| 1,1-Dichloroethylene | 75-35-4 | <25 (D) | <5 | <5 | <5 | 5 | 400 |
| 1,2-Dichloropropane | 78-87-5 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,3-Dichloropropane | 142-28-9 | <25 (D) | <5 | <5 | <5 | 5 | 300 |
| 2,2-Dichloropropane | 590-20-7 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,1-Dichloropropene | 563-58-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Ethylbenzene | 100-41-4 | <25 (D) | <5 | <5 | <5 | 5 | 5,500 |
| Hexachlorobutadiene | 87-68-3 | <25 (D) | <5 | <5 | <5 | 5 | -- |

## Table 1 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Volatile Organic Compounds (Method 8260)
## Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/28/07 | 12/28/07 | 12/28/07 | 12/28/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| 2-Hexanone | 591-78-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Isopropyl benzene | 98-82-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| m,p-Xylene | 1330-20-7 | 56 | <10 | <10 | <10 | 10 | 1,200 |
| 4-Methyl-2-pentanone | 108-10-1 | <25 (D) | <5 | <5 | <5 | 5 | 1,000 |
| MTBE | 1634-04-4 | <25 (D) | <5 | <5 | <5 | 5 | |
| Methylene Chloride | 75-09-2 | <25 (D) | <5 | <5 | <5 | 5 | 100 |
| Naphthalene | 91-20-3 | 21,000 | 5 | <5 | <5 | 5 | 13,000 |
| n-Butylbenzene | 104-51-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| n-Propylbenzene | 103-65-1 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| o-Xylene | 95-47-6 | 26 | <5 | <5 | <5 | 5 | 1,200 |
| p-Isopropyltoluene | 99-87-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| sec-Butylbenzene | 135-98-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Styrene | 100-42-5 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| tert-Butylbenzene | 98-06-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | <25 (D) | <5 | <5 | <5 | 5 | 600 |
| Tetrachloroethylene | 127-18-4 | <25 (D) | <5 | <5 | <5 | 5 | 1,400 |
| Toluene | 108-88-3 | 34 | <5 | <5 | <5 | 5 | 1,500 |
| trans-1,2-Dichloroethylene | 156-60-5 | <25 (D) | <5 | <5 | <5 | 5 | 300 |
| trans-1,3-Dichloropropene | 10061-02-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,2,3-Trichlorobenzene | 87-61-6 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,2,4-Trichlorobenzene | 120-82-1 | <25 (D) | <5 | <5 | <5 | 5 | 3,400 |
| 1,1,1-Trichloroethane | 71-55-6 | <25 (D) | <5 | <5 | <5 | 5 | 800 |
| 1,1,2-Trichloroethane | 79-00-5 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Trichloroethylene | 79-01-6 | <25 (D) | <5 | <5 | <5 | 5 | 700 |
| Trichlorofluoromethane | 75-69-4 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| 1,2,3-Trichloropropane | 96-18-4 | <25 (D) | <5 | <5 | <5 | 5 | 400 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 48 | <5 | <5 | <5 | 5 | -- |
| 1,3,5-Trimethylbenzene | 108-67-8 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Vinyl Acetate | 108-05-4 | <25 (D) | <5 | <5 | <5 | 5 | -- |
| Vinyl Chloride | 75-01-4 | <25 (D) | <5 | <5 | <5 | 5 | 200 |

Notes:

MDL - Minimum detection limit

D - Minimum detection limit raised due to target compound

E - Minimum detection limit raised due to non-target compound interference

# Table 2
# 212-218 North 9th Street, Brooklyn, NY
# Semi Volatile Organic Compounds (Method 8270)
# Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/27/07 | 12/27/07 | 12/27/07 | 12/27/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Acenaphthene | 83-32-9 | <40 | 432 | <800 (C) | 110 | 40 | 50,000 |
| Acenaphthylene | 208-96-8 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 41,000 |
| Aniline | 62-53-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 100 |
| Anthracene | 120-12-7 | <40 | 558 | <800 (C) | 156 | 40 | 50,000 |
| Azobenzene | 103-33-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | |
| Benzo[a]anthracene | 56-55-3 | <40 | 1,211 | <800 (C) | 426 | 40 | 224 or MDL |
| Benzo[a]pyrene | 50-32-8 | <40 | 358 | <800 (C) | 112 | 40 | 61 or MDL |
| Benzo[b]fluoranthene | 205-99-2 | <40 | 1,134 | <800 (C) | 327 | 40 | 1,100 |
| Benzo[g,h,i]perylene | 191-24-2 | <40 | 481 | <800 (C) | 136 | 40 | 50,000 |
| Benzo[k]fluoranthene | 207-08-9 | <40 | 347 | <800 (C) | 138 | 40 | 1,100 |
| Benzoic acid | 65-85-0 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Benzyl alcohol | 100-51-6 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| bis(2-chloroethoxy)methane | 111-91-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| bis(2-chloroethyl)ether | 111-44-4 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| bis(2-chloroisopropyl)ether | 108-60-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | <500 | <500 | <800 (C) | <500 | 500 | 50,000 |
| 4-Bromophenylphenyl ether | 101-55-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Butyl benzyl phthalate | 85-68-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 50,000 |
| Carbazole | 86-74-8 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | |
| 4-Chloro-3-methylphenol | 59-50-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 240 or MDL |
| 4-Chloroaniline | 106-47-8 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 220 or MDL |
| 2-Chloronaphthalene | 91-58-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 2-Chlorophenol | 95-57-8 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 800 |
| 4-Chlorophenylphenyl ether | 7005-72-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Chrysene | 218-01-9 | <40 | 1,126 | 2,623 | 313 | 40 | 400 |
| Dibenzo[a,h]anthracene | 53-70-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 14 or MDL |
| Dibenzofuran | 132-64-9 | <40 | 664 | <800 (C) | 235 | 40 | 6,200 |
| 1,2-Dichlorobenzene | 95-50-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 1,3-Dichlorobenzene | 541-73-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 1,4-Dichlorobenzene | 106-46-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 3,3'-Dichlorobenzidine | 91-94-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | N/A |
| 2,4-Dichlorophenol | 120-83-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 400 |
| Diethyl phthalate | 84-66-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 7,100 |
| 2,4-Dimethyl Phenol | 105-67-9 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Dimethyl phthalate | 131-11-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 2,000 |
| Di-n-butyl phthalate | 84-74-2 | <500 | <500 | <800 (C) | <500 | 500 | 8,100 |

## Table 2 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Semi Volatile Organic Compounds (Method 8270)
## Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/27/07 | 12/27/07 | 12/27/07 | 12/27/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 2,4-Dinitrophenol | 51-28-5 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 200 or MDL |
| 2,4-Dinitrotoluene | 121-14-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 2,6-Dinitrotoluene | 606-20-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 1,000 |
| Di-n-octyl phthalate | 117-84-0 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 50,000 |
| Fluoranthene | 206-44-0 | <40 | 2,464 | <800 (C) | 713 | 40 | 50,000 |
| Fluorene | 86-73-7 | <40 | 597 | <800 (C) | 134 | 40 | 50,000 |
| Hexachlorobenzene | 118-74-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 410 |
| Hexachlorobutadiene | 87-68-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Hexachlorocyclopentadiene | 77-47-4 | <66 | <300 (C) | <800 (C) | <80 (C) | 66 | -- |
| Hexachloroethane | 67-72-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | <40 | 548 | <800 (C) | 143 | 40 | 3,200 |
| Isophorone | 78-59-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 4,400 |
| 2-Methylnaphthalene | 91-57-6 | <40 | 872 | <800 (C) | 284 | 40 | 36,400 |
| 2-Methylphenol | 95-48-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 100 or MDL |
| 3&4-Methylphenol | 108-39-4 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 90 |
| Naphthalene | 91-20-3 | <40 | 1,520 | <800 (C) | 556 | 40 | 13,000 |
| 2-Nitroaniline | 88-74-4 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 430 or MDL |
| 3-Nitroaniline | 99-09-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 500 or MDL |
| 4-Nitroaniline | 100-01-6 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Nitrobenzene | 98-95-3 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 200 or MDL |
| 2-Nitrophenol | 88-75-5 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 330 or MDL |
| 4-Nitrophenol | 100-02-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 100 or MDL |
| n-Nitrosodimethylamine | 62-75-9 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| n-Nitroso-di-n-propylamine | 621-64-7 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| n-Nitrosodiphenylamine | 86-30-6 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| Pentachlorophenol | 87-86-5 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 1,000 or MDL |
| Phenanthrene | 85-01-8 | <40 | 4,323 | 3,236 | 1,443 | 40 | 50,000 |
| Phenol | 108-95-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 30 or MDL |
| Pyrene | 129-00-0 | <40 | 1,229 | <800 (C) | 348 | 40 | 50,000 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |
| 2,4,5-Trichlorophenol | 95-95-4 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | 100 |
| 2,4,6-Trichlorophenol | 88-06-2 | <40 | <300 (C) | <800 (C) | <80 (C) | 40 | -- |

Notes:

MDL - Minimum detection limit

C - Minimum detection limit raised due to matrix interference

# Table 2
# 212-218 North 9th Street, Brooklyn, NY
# Semi Volatile Organic Compounds (Method 8270)
# Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 01/03/08 | 01/02/08 | 01/02/08 | 01/02/08 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Acenaphthene | 83-32-9 | 536 | <40 | <40 | <40 | 40 | 50,000 |
| Acenaphthylene | 208-96-8 | <200 (D) | <40 | <40 | <40 | 40 | 41,000 |
| Aniline | 62-53-3 | <200 (D) | <40 | <40 | <40 | 40 | |
| Anthracene | 120-12-7 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Azobenzene | 103-33-3 | <200 (D) | <40 | <40 | <40 | 40 | |
| Benzo[a]anthracene | 56-55-3 | <200 (D) | <40 | <40 | <40 | 40 | 224 or MDL |
| Benzo[a]pyrene | 50-32-8 | <200 (D) | <40 | <40 | <40 | 40 | 61 or MDL |
| Benzo[b]fluoranthene | 205-99-2 | <200 (D) | <40 | <40 | <40 | 40 | 1,100 |
| Benzo[g,h,i]perylene | 191-24-2 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Benzo[k]fluoranthene | 207-08-9 | <200 (D) | <40 | <40 | <40 | 40 | 1,100 |
| Benzoic acid | 65-85-0 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Benzyl alcohol | 100-51-6 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| bis(2-chloroethoxy)methane | 111-91-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| bis(2-chloroethyl)ether | 111-44-4 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| bis(2-chloroisopropyl)ether | 108-60-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | <500 | <500 | <500 | <500 | 500 | 50,000 |
| 4-Bromophenylphenyl ether | 101-55-3 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Butyl benzyl phthalate | 85-68-7 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Carbazole | 86-74-8 | 217 | <40 | <40 | <40 | 40 | |
| 4-Chloro-3-methylphenol | 59-50-7 | <200 (D) | <40 | <40 | <40 | 40 | 240 or MDL |
| 4-Chloroaniline | 106-47-8 | <200 (D) | <40 | <40 | <40 | 40 | 220 or MDL |
| 2-Chloronaphthalene | 91-58-7 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 2-Chlorophenol | 95-57-8 | <200 (D) | <40 | <40 | <40 | 40 | 800 |
| 4-Chlorophenylphenyl ether | 7005-72-3 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Chrysene | 218-01-9 | <200 (D) | <40 | <40 | <40 | 40 | 400 |
| Dibenzo[a,h]anthracene | 53-70-3 | <200 (D) | <40 | <40 | <40 | 40 | 14 or MDL |
| Dibenzofuran | 132-64-9 | <200 (D) | <40 | <40 | <40 | 40 | 6,200 |
| 1,2-Dichlorobenzene | 95-50-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 1,3-Dichlorobenzene | 541-73-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 1,4-Dichlorobenzene | 106-46-7 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 3,3'-Dichlorobenzidine | 91-94-1 | <200 (D) | <40 | <40 | <40 | 40 | N/A |
| 2,4-Dichlorophenol | 120-83-2 | <200 (D) | <40 | <40 | <40 | 40 | 400 |
| Diethyl phthalate | 84-66-2 | <200 (D) | <40 | <40 | <40 | 40 | 7,100 |
| 2,4-Dimethyl Phenol | 105-67-9 | 452 | <40 | <40 | <40 | 40 | -- |
| Dimethyl phthalate | 131-11-3 | <200 (D) | <40 | <40 | <40 | 40 | 2,000 |
| Di-n-butyl phthalate | 84-74-2 | <500 | <500 | <500 | <500 | 500 | 8,100 |

## Table 2 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Semi Volatile Organic Compounds (Method 8270)
## Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 01/03/08 | 01/02/08 | 01/02/08 | 01/02/08 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| 4,6-Dinitro-2-methylphenol | 534-52-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 2,4-Dinitrophenol | 51-28-5 | <200 (D) | <40 | <40 | <40 | 40 | 200 or MDL |
| 2,4-Dinitrotoluene | 121-14-2 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 2,6-Dinitrotoluene | 606-20-2 | <200 (D) | <40 | <40 | <40 | 40 | 1,000 |
| Di-n-octyl phthalate | 117-84-0 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Fluoranthene | 206-44-0 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Fluorene | 86-73-7 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Hexachlorobenzene | 118-74-1 | <200 (D) | <40 | <40 | <40 | 40 | 410 |
| Hexachlorobutadiene | 87-68-3 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Hexachlorocyclopentadiene | 77-47-4 | <200 (D) | <66 | <66 | <66 | 66 | -- |
| Hexachloroethane | 67-72-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | <200 (D) | <40 | <40 | <40 | 40 | 3,200 |
| Isophorone | 78-59-1 | <200 (D) | <40 | <40 | <40 | 40 | 4,400 |
| 2-Methylnaphthalene | 91-57-6 | 789 | <40 | <40 | <40 | 40 | 36,400 |
| 2-Methylphenol | 95-48-7 | <200 (D) | <40 | <40 | <40 | 40 | 100 or MDL |
| 3&4-Methylphenol | 108-39-4 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Naphthalene | 91-20-3 | 10,809 | 42 | <40 | <40 | 40 | 13,000 |
| 2-Nitroaniline | 88-74-4 | <200 (D) | <40 | <40 | <40 | 40 | 430 or MDL |
| 3-Nitroaniline | 99-09-2 | <200 (D) | <40 | <40 | <40 | 40 | 500 or MDL |
| 4-Nitroaniline | 100-01-6 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Nitrobenzene | 98-95-3 | <200 (D) | <40 | <40 | <40 | 40 | 200 or MDL |
| 2-Nitrophenol | 88-75-5 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 4-Nitrophenol | 100-02-7 | <200 (D) | <40 | <40 | <40 | 40 | 100 or MDL |
| n-Nitrosodimethylamine | 62-75-9 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| n-Nitroso-di-n-propylamine | 621-64-7 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| n-Nitrosodiphenylamine | 86-30-6 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| Pentachlorophenol | 87-86-5 | <200 (D) | <40 | <40 | <40 | 40 | 1,000 or MDL |
| Phenanthrene | 85-01-8 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| Phenol | 108-95-2 | <200 (D) | <40 | <40 | <40 | 40 | 30 or MDL |
| Pyrene | 129-00-0 | <200 (D) | <40 | <40 | <40 | 40 | 50,000 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <200 (D) | <40 | <40 | <40 | 40 | -- |
| 2,4,5-Trichlorophenol | 95-95-4 | <200 (D) | <40 | <40 | <40 | 40 | 100 |
| 2,4,6-Trichlorophenol | 88-06-2 | <200 (D) | <40 | <40 | <40 | 40 | -- |

Notes:

MDL - Minimum detection limit

D - Minimum detection limit raised due to target compound interference

# Table 3
# 212-218 North 9th Street, Brooklyn, NY
# Metals (SW-846 Method 6010)
# Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (mg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/21/07 12/26/07 | 12/21/07 12/26/07 | 12/21/07 12/26/07 | 12/21/07 12/26/07 | | |
| Units | | mg/kg | mg/kg | mg/kg | mg/kg | | |
| Aluminum | 7429-90-5 | 6,041 | 6,636 | 3,740 | 10,313 | 1.65 | SB |
| Antimony | 7440-36-0 | <1.65 | <1.65 | 2.75 | <1.65 | 1.65 | SB |
| Arsenic | 7440-38-2 | <1.65 | <1.65 | 10.6 | <1.65 | 1.65 | 7.5 or SB |
| Barium | 7440-39-3 | 65.9 | 40 | 5,901 | 312 | 3.33 | 300 or SB |
| Beryllium | 7440-41-7 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | 0.16 (HEAST)or SB |
| Cadmium | 7440-43-9 | <1.00 | <1.00 | 2.2 | <1.00 | 1 | 1 or SB |
| Calcium | 7440-70-2 | 1,472 | 42,760 | 1,199 | 22,262 | 1.65 | SB |
| Chromium | 7440-47-3 | 9.48 | 9.01 | 33,402 | 20.6 | 1.65 | 10 or SB |
| Cobalt | 7440-48-4 | 4.96 | 3.7 | <1.65 | 6.5 | 1.65 | 30 or SB |
| Copper | 7440-50-8 | 9.53 | 9.29 | <1.65 | 13.9 | 1.65 | 25 or SB |
| Iron | 7439-89-6 | 13,347 | 10,197 | 3,827 | 18,979 | 1.65 | 2,000 or SB |
| Lead | 7439-92-1 | 14.8 | 35 | 28,231 | 28.7 | 1.65 | SB |
| Magnesium | 7439-95-4 | 1,974 | 2,572 | 103 | 3,918 | 1.65 | SB |
| Manganese | 7439-96-5 | 115 | 177 | 13.7 | 134 | 1.65 | SB |
| Mercury | 7439-97-6 | <0.020 | <0.020 | 0.043 | <0.020 | 0.02 | 0.1 |
| Nickel | 7440-02-0 | 7.33 | 6.29 | <1.65 | 9.12 | 1.65 | 13 or SB |
| Potassium | 7440-09-7 | 664 | 860 | 187 | 4,313 | 1.65 | SB |
| Selenium | 7782-49-2 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | 2 or SB |
| Silver | 7440-22-4 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | SB |
| Sodium | 7440-23-5 | 44.3 | 152 | 1,581 | 235 | 1.65 | SB |
| Thallium | 7440-28-0 | <1.65 | <1.65 | 27.8 | <1.65 | 1.65 | SB |
| Vanadium | 7440-62-2 | 12.8 | 12.7 | <1.65 | 17 | 1.65 | 150 or SB |
| Zinc | 7440-66-6 | 29.4 | 42.3 | 576 | 73.3 | 1.65 | 20 or SB |

## Table 3 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Metals (SW-846 Method 6010)
## Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (mg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/28/07 | 12/28/07 01/02/08 | 12/28/07 01/02/08 | 12/28/07 01/02/08 | | |
| Units | | mg/kg | mg/kg | mg/kg | mg/kg | | |
| Aluminum | 7429-90-5 | 10,511 | 9,630 | 7,065 | 8,515 | 1.65 | SB |
| Antimony | 7440-36-0 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | SB |
| Arsenic | 7440-38-2 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | 7.5 or SB |
| Barium | 7440-39-3 | 40.3 | 36.3 | 28.5 | 35.2 | 3.33 | 300 or SB |
| Beryllium | 7440-41-7 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | 0.16 (HEAST)or SB |
| Cadmium | 7440-43-9 | <1.00 | <1.00 | <1.00 | <1.00 | 1 | 1 or SB |
| Calcium | 7440-70-2 | 784 | 773 | 2,412 | 533 | 1.65 | SB |
| Chromium | 7440-47-3 | 9.35 | 15.5 | 14.7 | 13.1 | 1.65 | 10 or SB |
| Cobalt | 7440-48-4 | 4.85 | 6.61 | 6.77 | 7.11 | 1.65 | 30 or SB |
| Copper | 7440-50-8 | 9.99 | 15.1 | 12.2 | 11.5 | 1.65 | 25 or SB |
| Iron | 7439-89-6 | 13,789 | 24,878 | 1,266 | 1,275 | 1.65 | 2,000 or SB |
| Lead | 7439-92-1 | 15.9 | 4.43 | 5.2 | 4.47 | 1.65 | SB |
| Magnesium | 7439-95-4 | 1,782 | 2,127 | 1,877 | 2,075 | 1.65 | SB |
| Manganese | 7439-96-5 | 257 | 166 | 458 | 167 | 1.65 | SB |
| Mercury | 7439-97-6 | 0.056 | <0.020 | <0.020 | <0.020 | 0.02 | 0.1 |
| Nickel | 7440-02-0 | 7.86 | 10.3 | 9.3 | 9.59 | 1.65 | 13 or SB |
| Potassium | 7440-09-7 | 674 | 1,095 | 1,091 | 1,125 | 1.65 | SB |
| Selenium | 7782-49-2 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | 2 or SB |
| Silver | 7440-22-4 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | SB |
| Sodium | 7440-23-5 | 81.9 | 40.2 | 47.6 | 36.9 | 1.65 | SB |
| Thallium | 7440-28-0 | <1.65 | <1.65 | <1.65 | <1.65 | 1.65 | SB |
| Vanadium | 7440-62-2 | 13.2 | 24.4 | 20.1 | 21.1 | 1.65 | 150 or SB |
| Zinc | 7440-66-6 | 29.3 | 33.1 | 37.7 | 28.4 | 1.65 | 20 or SB |

# Table 4
## 212-218 North 9th Street, Brooklyn, NY
## Pesticides/PCBs (Method 8081/8082)
## Soil Samples (SB-1, SB-2, SB-3, SB-4)

| Sample ID | CAS # | SB-1 | SB-2 | SB-3 | SB-4 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/20/07 | 12/20/07 | 12/20/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 0'-4' | 4'-8' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Aldrin | 309-00-2 | <5 | <5 | <5 | <5 | 5 | 41 |
| α-BHC | 319-84-6 | <5 | <5 | <5 | <5 | 5 | 110 |
| β-BHC | 319-85-7 | <5 | <5 | <5 | <5 | 5 | 200 |
| δ-BHC | 319-86-8 | <5 | <5 | <5 | <5 | 5 | 300 |
| γ-BHC ( Lindane) | 58-89-9 | <5 | <5 | <5 | <5 | 5 | 60 |
| Chlordane | 12789-03-6 | <15 | 33.2 | <15 | <15 | 15 | 540 |
| 4,4'-DDD | 72-54-8 | <5 | <5 | <5 | <5 | 5 | 2900 |
| 4,4'-DDE | 72-55-9 | <5 | <5 | <5 | <5 | 5 | 2100 |
| 4,4'-DDT | 50-29-3 | <5 | <5 | <5 | <5 | 5 | 2100 |
| Dieldrin | 60-57-1 | <5 | <5 | <5 | <5 | 5 | 44 |
| Endosulfan I | 959-98-8 | <5 | <5 | <5 | <5 | 5 | 900 |
| Endosulfan II | 33212-65-9 | <5 | <5 | <5 | <5 | 5 | 900 |
| Endosulfan sulfate | 1031-07-8 | <5 | <5 | <5 | <5 | 5 | 1000 |
| Endrin | 72-20-8 | <5 | <5 | <5 | <5 | 5 | 100 |
| Endrin aldehyde | 7421-93-4 | <5 | <5 | <5 | <5 | 5 | -- |
| Heptachlor | 76-44-8 | <5 | <5 | <5 | <5 | 5 | 100 |
| Heptachlor epoxide | 1024-57-3 | <5 | <5 | <5 | <5 | 5 | 20 |
| 4,4'-Methoxychlor | 72-43-5 | <5 | <5 | <5 | <5 | 5 | *** |
| Toxaphene | 8001-35-2 | <200 | <200 | <200 | <200 | 200 | -- |
| Endrin ketone | 53494-70-5 | <5 | <5 | <5 | <5 | 5 | N/A |
| Aroclor-1016 | 12674-11-2 | <200 | <200 | <200 | <200 | 200 | 1000 |
| Aroclor-1221 | 11104-28-2 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1232 | 11141-16-5 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1242 | 53469-21-9 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1248 | 12672-29-6 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1254 | 11097-69-1 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1260 | 11096-82-5 | <200 | <200 | <200 | <200 | 200 | |

## Table 4 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Pesticides/PCBs (Method 8081/8082)
## Soil Samples (SB-5, SB-6, SB-7, SB-8)

| Sample ID | CAS # | SB-5 | SB-6 | SB-7 | SB-8 | MDL | TAGM Rec. Soil Cleanup Objective (µg/kg) |
|---|---|---|---|---|---|---|---|
| Date Collected | | 12/26/07 | 12/26/07 | 12/26/07 | 12/26/07 | | |
| Depth(ft) | | 4'-8' | 4'-8' | 8'-12' | 8'-12' | | |
| Matrix | | Soil | Soil | Soil | Soil | | |
| Date Analyzed | | 01/02/08 | 01/02/08 | 01/02/08 | 01/02/08 | | |
| Units | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Aldrin | 309-00-2 | <5 | <5 | <5 | <5 | 5 | 41 |
| α-BHC | 319-84-6 | <5 | <5 | <5 | <5 | 5 | 110 |
| β-BHC | 319-85-7 | <5 | <5 | <5 | <5 | 5 | 200 |
| δ-BHC | 319-86-8 | <5 | <5 | <5 | <5 | 5 | 300 |
| γ-BHC ( Lindane) | 58-89-9 | <5 | <5 | <5 | <5 | 5 | 60 |
| Chlordane | 12789-03-6 | <15 | <15 | <15 | <15 | 15 | 540 |
| 4,4'-DDD | 72-54-8 | <5 | <5 | <5 | <5 | 5 | 2900 |
| 4,4'-DDE | 72-55-9 | <5 | <5 | <5 | <5 | 5 | 2100 |
| 4,4'-DDT | 50-29-3 | <5 | <5 | <5 | <5 | 5 | 2100 |
| Dieldrin | 60-57-1 | <5 | <5 | <5 | <5 | 5 | 44 |
| Endosulfan I | 959-98-8 | <5 | <5 | <5 | <5 | 5 | 900 |
| Endosulfan II | 33212-65-9 | <5 | <5 | <5 | <5 | 5 | 900 |
| Endosulfan sulfate | 1031-07-8 | <5 | <5 | <5 | <5 | 5 | 1000 |
| Endrin | 72-20-8 | <5 | <5 | <5 | <5 | 5 | 100 |
| Endrin aldehyde | 7421-93-4 | <5 | <5 | <5 | <5 | 5 | -- |
| Heptachlor | 76-44-8 | <5 | <5 | <5 | <5 | 5 | 100 |
| Heptachlor epoxide | 1024-57-3 | <5 | <5 | <5 | <5 | 5 | 20 |
| 4,4'-Methoxychlor | 72-43-5 | <5 | <5 | <5 | <5 | 5 | *** |
| Toxaphene | 8001-35-2 | <200 | <200 | <200 | <200 | 200 | -- |
| Endrin ketone | 53494-70-5 | <5 | <5 | <5 | <5 | 5 | N/A |
| Aroclor-1016 | 12674-11-2 | <200 | <200 | <200 | <200 | 200 | 1000 |
| Aroclor-1221 | 11104-28-2 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1232 | 11141-16-5 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1242 | 53469-21-9 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1248 | 12672-29-6 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1254 | 11097-69-1 | <200 | <200 | <200 | <200 | 200 | |
| Aroclor-1260 | 11096-82-5 | <200 | <200 | <200 | <200 | 200 | |

# Table 5
# 212-218 North 9th Street, Brooklyn, NY
# Volatile Organic Compounds (Method 8260)
# Groundwater Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (µg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/21/07 | 12/27/07 | | |
| Units | | µg/L | µg/L | | |
| Acetone | 67-64-1 | <50 | <50 | 50 | 50 |
| Benzene | 71-43-2 | <0.7 | <0.7 | 0.7 | 1 |
| Bromobenzene | 108-86-1 | <5 | <5 | 5 | 5 |
| Bromochloromethane | 74-97-5 | <5 | <5 | 5 | 5 |
| Bromodichloromethane | 75-27-4 | <5 | <5 | 5 | 50 |
| Bromoform | 75-25-2 | <5 | <5 | 5 | 50 |
| Bromomethane | 74-83-9 | <5 | <5 | 5 | 5 |
| 2-Butanone | 78-93-3 | <10 | <10 | 10 | 10 |
| Carbon disulfide | 75-15-0 | <5 | <5 | 5 | Not Regulated |
| Carbon tetrachloride | 56-23-5 | <5 | <5 | 5 | 5 |
| Chlorobenzene | 108-90-7 | <5 | <5 | 5 | 5 |
| Chloroethane | 75-00-3 | <5 | <5 | 5 | 5 |
| 2-Chloroethyl vinyl ether | 110-75-8 | <5 | <5 | 5 | Not Regulated |
| Chloroform | 67-66-3 | <5 | <5 | 5 | 7 |
| Chloromethane | 74-87-3 | <5 | <5 | 5 | 5 |
| 2-Chlorotoluene | 95-49-8 | <5 | <5 | 5 | 5 |
| 4-Chlorotoluene | 106-43-4 | <5 | <5 | 5 | 5 |
| cis-1,2-Dichloroethylene | 156-59-2 | <5 | <5 | 5 | 5 |
| cis-1,3-Dichloropropene | 10061-01-5 | <5 | <5 | 5 | 0.4 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | <5 | <5 | 5 | 0.04 |
| Dibromochloromethane | 124-48-1 | <5 | <5 | 5 | 50 |
| 1,2-Dibromoethane | 106-93-4 | <5 | <5 | 5 | 6x10-4 |
| Dibromomethane | 74-95-3 | <5 | <5 | 5 | 5 |
| 1,2-Dichlorobenzene | 95-50-1 | <5 | <5 | 5 | 3 |
| 1,3-Dichlorobenzene | 541-73-1 | <5 | <5 | 5 | 3 |
| 1,4-Dichlorobenzene | 106-46-7 | <5 | <5 | 5 | 3 |
| Dichlorodifluoromethane | 75-71-8 | <5 | <5 | 5 | 5 |
| 1,1-Dichloroethane | 75-35-3 | <5 | <5 | 5 | 5 |
| 1,2-Dichloroethane | 107-06-2 | <5 | <5 | 5 | 0.6 |
| 1,1-Dichloroethylene | 75-35-4 | <5 | <5 | 5 | 5 |
| 1,2-Dichloropropane | 78-87-5 | <5 | <5 | 5 | 1 |
| 1,3-Dichloropropane | 142-28-9 | <5 | <5 | 5 | 5 |
| 2,2-Dichloropropane | 78-87-5 | <5 | <5 | 5 | 5 |
| 1,1-Dichloropropene | 563-58-6 | <5 | <5 | 5 | 5 |
| Ethylbenzene | 100-41-4 | <5 | <5 | 5 | 5 |
| Hexachlorobutadiene | 87-68-3 | <5 | <5 | 5 | 0.5 |

## Table 5 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Volatile Organic Compounds (Method 8260)
## Groundwater Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (µg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/21/07 | 12/27/07 | | |
| Units | | µg/L | µg/L | | |
| 2-Hexanone | 591-78-6 | <5 | <5 | 5 | 50 |
| Isopropyl benzene | 98-82-8 | <5 | <5 | 5 | 5 |
| m,p-Xylene | 1330-20-7 | 11 | <10 | 10 | 5 |
| 4-Methyl-2-pentanone | 108-10-1 | <5 | <5 | 5 | Not Regulated |
| Methylene Chloride | 75-09-2 | <5 | <5 | 5 | 5 |
| MTBE | 1634-04-4 | <5 | <5 | 5 | |
| Naphthalene | 91-20-3 | 14 | <5 | 5 | --- |
| n-Butylbenzene | 104-51-8 | <5 | <5 | 5 | 5 |
| n-Propylbenzene | 103-65-1 | <5 | <5 | 5 | 5 |
| o-Xylene | 95-47-6 | <5 | <5 | 5 | 5 |
| p-Isopropyltoluene | 99-86-5 | <5 | <5 | 5 | 5 |
| sec-Butylbenzene | 135-98-8 | <5 | <5 | 5 | 5 |
| Styrene | 100-42-5 | <5 | <5 | 5 | 5 |
| tert-Butylbenzene | 98-06-6 | <5 | <5 | 5 | 5 |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | <5 | <5 | 5 | 5 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | <5 | <5 | 5 | 5 |
| Tetrachloroethylene | 127-18-4 | <5 | <5 | 5 | 5 |
| Toluene | 108-88-3 | <5 | <5 | 5 | 5 |
| trans-1,2-Dichloroethylene | 156-60-5 | <5 | <5 | 5 | 5 |
| trans-1,3-Dichloropropene | 10061-02-6 | <5 | <5 | 5 | 0.4 |
| 1,2,3-Trichlorobenzene | 87-61-6 | <5 | <5 | 5 | 5 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <5 | <5 | 5 | |
| 1,1,1-Trichloroethane | 71-55-6 | <5 | <5 | 5 | 5 |
| 1,1,2-Trichloroethane | 79-00-5 | <5 | <5 | 5 | 1 |
| Trichloroethylene | 79-01-6 | <5 | <5 | 5 | 5 |
| Trichlorofluoromethane | 75-69-4 | <5 | <5 | 5 | 5 |
| 1,2,3-Trichloropropane | 96-18-4 | <5 | <5 | 5 | 5 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 17 | <5 | 5 | 5 |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5 | <5 | 5 | 5 |
| Vinyl Acetate | 108-05-4 | <5 | <5 | 5 | Not Regulated |
| Vinyl Chloride | 75-01-4 | <5 | <5 | 5 | 2 |

# Table 6
# 212-218 North 9th Street, Brooklyn, NY
# Semi Volatile Organic Compounds (Method 8270)
# Soil Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (µg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/26/07 | 01/03/08 | | |
| Units | | µg/L | µg/L | | |
| Acenaphthene | 83-32-9 | <5 | <5 | 5 | -- |
| Acenaphthylene | 208-96-8 | <5 | <5 | 5 | Not Regulated |
| Aniline | 62-53-3 | <5 | <5 | 5 | -- |
| Anthracene | 120-12-7 | <5 | <5 | 5 | 50 |
| Azobenzene | 103-33-3 | <5 | <5 | 5 | |
| Benzo[a]anthracene | 56-55-3 | <5 | <5 | 5 | 0.002 |
| Benzo[a]pyrene | 50-32-8 | <5 | <5 | 5 | ND |
| Benzo[b]fluoranthene | 205-99-2 | <5 | <5 | 5 | 0.002 |
| Benzo[g,h,i]perylene | 191-24-2 | <5 | <5 | 5 | Not Regulated |
| Benzo[k]fluoranthene | 207-08-9 | <5 | <5 | 5 | 0.002 |
| Benzoic acid | 65-85-0 | <5 | <5 | 5 | Not Regulated |
| Benzyl alcohol | 100-51-6 | <5 | <5 | 5 | Not Regulated |
| bis(2-chloroethoxy)methane | 111-91-1 | <5 | <5 | 5 | 5 |
| bis(2-chloroethyl)ether | 111-44-4 | <5 | <5 | 5 | 1 |
| bis(2-chloroisopropyl)ether | 108-60-1 | <5 | <5 | 5 | 5 |
| bis(2-Ethylhexyl)phthalate | 117-81-7 | <5 | <5 | 5 | 5 |
| 4-Bromophenylphenyl ether | 101-55-3 | <5 | <5 | 5 | Not Regulated |
| Butyl benzyl phthalate | 85-68-7 | <5 | <5 | 5 | 50 |
| Carbazole | 86-74-8 | <5 | <5 | 5 | |
| 4-Chloro-3-methylphenol | 59-50-7 | <5 | <5 | 5 | Not listed |
| 4-Chloroaniline | 106-47-8 | <5 | <5 | 5 | 5 |
| 2-Chloronaphthalene | 91-58-7 | <5 | <5 | 5 | -- |
| 2-Chlorophenol | 95-57-8 | <5 | <5 | 5 | Not listed |
| 4-Chlorophenylphenyl ether | 7005-72-3 | <5 | <5 | 5 | Not Regulated |
| Chrysene | 218-01-9 | <5 | <5 | 5 | 0.002 |
| Dibenzo[a,h]anthracene | 53-70-3 | <5 | <5 | 5 | Not Regulated |
| Dibenzofuran | 132-64-9 | <5 | <5 | 5 | Not Regulated |
| 1,2-Dichlorobenzene | 95-50-1 | <5 | <5 | 5 | 3 |
| 1,3-Dichlorobenzene | 541-73-1 | <5 | <5 | 5 | 3 |
| 1,4-Dichlorobenzene | 106-46-7 | <5 | <5 | 5 | 3 |
| 3,3'-Dichlorobenzidine | 91-94-1 | <5 | <5 | 5 | 5 |
| 2,4-Dichlorophenol | 120-83-2 | <5 | <5 | 5 | 5 |
| Diethyl phthalate | 84-66-2 | <5 | <5 | 5 | 50 |
| 2,4-Dimethyl Phenol | 105-67-9 | <5 | <5 | 5 | 50 |
| Dimethyl phthalate | 131-11-3 | <5 | <5 | 5 | 50 |
| Di-n-butyl phthalate | 84-74-2 | <5 | 5 | 5 | 50 |

## Table 6 (continued)
## 212-218 North 9th Street, Brooklyn, NY
## Semi Volatile Organic Compounds (Method 8270)
## Soil Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (µg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/26/07 | 01/03/08 | | |
| Units | | µg/L | µg/L | | |
| Fluoranthene | 206-44-0 | <5 | <5 | 5 | 50 |
| Fluorene | 86-73-7 | <5 | <5 | 5 | 50 |
| Hexachlorobenzene | 118-74-1 | <5 | <5 | 5 | 0.04 |
| Hexachlorobutadiene | 87-68-3 | <5 | <5 | 5 | 0.5 |
| Hexachlorocyclopentadiene | 77-47-4 | <5 | <5 | 5 | 5 |
| Hexachloroethane | 67-72-1 | <5 | <5 | 5 | 5 |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | <5 | <5 | 5 | 0.002 |
| Isophorone | 78-59-1 | <5 | <5 | 5 | 50 |
| 2-Methylnaphthalene | 91-57-6 | <5 | <5 | 5 | -- |
| 2-Methylphenol | 95-48-7 | <5 | <5 | 5 | Not listed |
| 3&4-Methylphenol | 108-39-4 | <5 | <5 | 5 | Not listed |
| Naphthalene | 91-20-3 | <5 | <5 | 5 | -- |
| 2-Nitroaniline | 88-74-4 | <5 | <5 | 5 | 5 |
| 3-Nitroaniline | 99-09-2 | <5 | <5 | 5 | 5 |
| Nitrobenzene | 98-95-3 | <5 | <5 | 5 | 0.4 |
| 2-Nitrophenol | 88-75-5 | <5 | <5 | 5 | Not listed |
| 4-Nitrophenol | 100-02-7 | <5 | <5 | 5 | Not listed |
| n-Nitrosodimethylamine | 62-75-9 | <5 | <5 | 5 | Not Regulated |
| n-Nitroso-di-n-propylamine | 621-64-7 | <5 | <5 | 5 | Not Regulated |
| n-Nitrosodiphenylamine | 86-30-6 | <5 | <5 | 5 | 50 |
| Pentachlorophenol | 87-86-5 | <5 | <5 | 5 | -- |
| Phenanthrene | 85-01-8 | <5 | <5 | 5 | 50 |
| Phenol | 108-95-2 | <5 | <5 | 5 | -- |
| Pyrene | 129-00-0 | <5 | <5 | 5 | 50 |
| 1,2,4-Trichlorobenzene | 120-82-1 | <5 | <5 | 5 | 5 |
| 2,4,5-Trichlorophenol | 95-95-4 | <5 | <5 | 5 | Not listed |
| 2,4,6-Trichlorophenol | 88-06-2 | <5 | <5 | 5 | Not listed |
| Hexachlorobenzene | 118-74-1 | <5 | <5 | 5 | 0.04 |
| Hexachlorobutadiene | 87-68-3 | <5 | <5 | 5 | 0.5 |
| Hexachlorocyclopentadiene | 77-47-4 | <5 | <5 | 5 | 5 |
| Hexachloroethane | 67-72-1 | <5 | <5 | 5 | 5 |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | <5 | <5 | 5 | 0.002 |
| Isophorone | 78-59-1 | <5 | <5 | 5 | 50 |

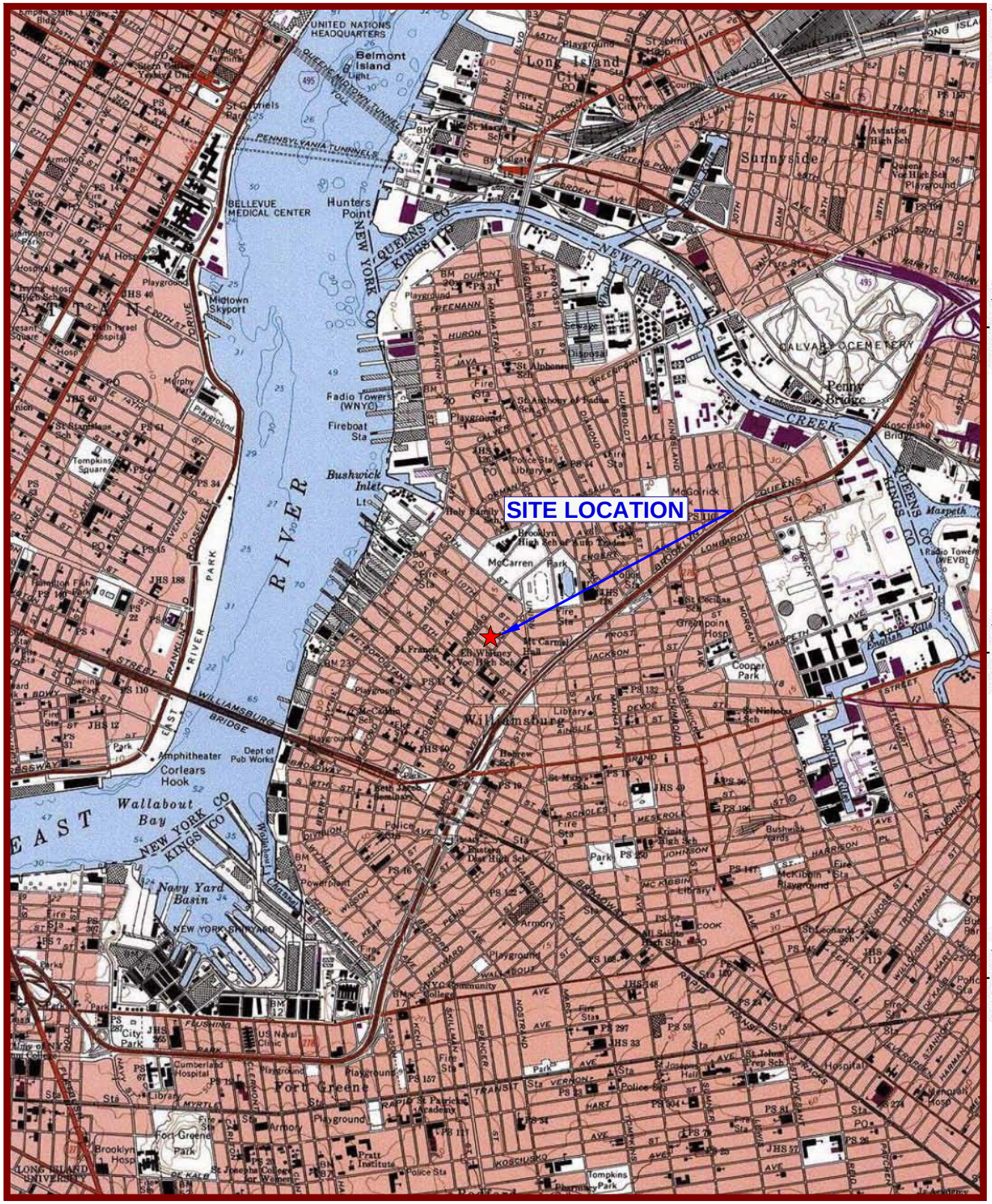
# Table 7
# 212-218 North 9th Street, Brooklyn, NY
# Metals (SW-846 Method 6010)
# Soil Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (mg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/26/07 | 12/28/07<br>01/02/08 | | |
| Units | | mg/L | mg/L | | |
| Aluminum | 7429-90-5 | 963 | 0.43 | 0.05 | -- |
| Antimony | 7440-36-0 | <0.05 | <0.05 | 0.05 | 0.003 |
| Arsenic | 7440-38-2 | 0.09 | <0.05 | 0.05 | 0.05 |
| Barium | 7440-39-3 | 7.21 | <1.00 | 1 | 1 |
| Beryllium | 7440-41-7 | <0.05 | <0.05 | 0.05 | 0.003 |
| Cadmium | 7440-43-9 | <0.05 | <0.05 | 0.05 | 0.005 |
| Calcium | 7440-70-2 | 299 | 205 | 0.05 | Not Listed |
| Chromium | 7440-47-3 | 1.27 | <0.05 | 0.05 | 0.05 |
| Cobalt | 7440-48-4 | 0.54 | <0.05 | 0.05 | -- |
| Copper | 7440-50-8 | 1.28 | <0.05 | 1.28 | 0.2 |
| Iron | 7440-22-4 | 1,628 | 0.77 | 0.05 | -- |
| Lead | 7439-89-6 | 1.58 | <0.005 | 0.005 | 0.025 |
| Magnesium | 7439-92-1 | 237 | 81.8 | 0.05 | 35 |
| Manganese | 7439-95-4 | 29.6 | 8.9 | 0.05 | -- |
| Mercury | 7439-96-5 | <0.002 | <0.002 | 0.002 | 0.0007 |
| Nickel | 7439-97-6 | 0.94 | <0.05 | 0.05 | 0.1 |
| Potassium | 7440-09-7 | 115 | 6.52 | 0.05 | Not Listed |
| Selenium | 7782-49-2 | <0.05 | <0.05 | 0.05 | 0.01 |
| Silver | 7440-22-4 | <0.05 | <0.05 | 0.05 | 0.05 |
| Sodium | 7440-22-4 | 37.7 | 51.9 | 0.05 | 20 |
| Thallium | 7440-23-5 | <0.05 | <0.05 | 0.05 | 0.0005 |
| Vanadium | 7440-28-0 | 1.49 | <0.05 | 0.05 | -- |
| Zinc | 7440-62-2 | 3.3 | 0.05 | 0.05 | 2 |

# Table 8
# 212-218 North 9th Street, Brooklyn, NY
# Pesticides/PCBs (Method 8081/8082)
# Soil Samples (SB-1, SB-6)

| Sample ID | CAS # | SB-1 | SB-6 | MDL | TOGS Standards (µg/L) |
|---|---|---|---|---|---|
| Date Collected | | 12/20/07 | 12/26/07 | | |
| Matrix | | Liquid | Liquid | | |
| Date Analyzed | | 12/27/07 | 01/03/08 | | |
| Units | | µg/L | µg/L | | |
| Aldrin | 309-00-2 | <0.01 | <0.01 | 0.01 | ND |
| α-BHC | 319-84-6 | <0.01 | <0.01 | 0.01 | 0.01 |
| β-BHC | 319-85-7 | <0.01 | <0.01 | 0.01 | 0.04 |
| δ-BHC | 319-86-8 | <0.01 | <0.01 | 0.01 | 0.04 |
| γ-BHC ( Lindane) | 58-89-9 | <0.02 | <0.02 | 0.02 | 0.05 |
| Chlordane | 12789-03-6 | <0.02 | <0.10 | 0.02 | 0.3 |
| 4,4'-DDD | 72-54-8 | <0.01 | <0.01 | 0.01 | 0.2 |
| 4,4'-DDE | 72-55-9 | <0.01 | <0.01 | 0.01 | 0.2 |
| 4,4'-DDT | 50-29-3 | <0.05 | <0.05 | 0.05 | 0.004 |
| Dieldrin | 60-57-1 | <0.01 | <0.01 | 0.01 | |
| Endosulfan I | 959-98-8 | <0.01 | <0.01 | 0.01 | |
| Endosulfan II | 33212-65-9 | <0.01 | <0.01 | 0.01 | |
| Endosulfan sulfate | 1031-07-8 | <0.02 | <0.02 | 0.02 | |
| Endrin | 72-20-8 | <0.01 | <0.01 | 0.01 | ND |
| Endrin aldehyde | 7421-93-4 | <0.01 | <0.01 | 0.01 | 5 |
| Heptachlor | 76-44-8 | <0.01 | <0.01 | 0.01 | 5 |
| Heptachlor epoxide | 1024-57-3 | <0.01 | <0.01 | 0.01 | 0.04 |
| 4,4'-Methoxychlor | 72-43-5 | <0.01 | <0.01 | 0.01 | 0.03 |
| Toxaphene | 8001-35-2 | <20 | <20 | 20 | 35 |
| Endrin ketone | 53494-70-5 | <0.02 | <0.02 | 0.02 | 0.06 |
| Aroclor-1016 | 12674-11-2 | <20 | <20 | 20 | 0.09 |
| Aroclor-1221 | 11104-28-2 | <20 | <20 | 20 | |
| Aroclor-1232 | 11141-16-5 | <20 | <20 | 20 | |
| Aroclor-1242 | 53469-21-9 | <20 | <20 | 20 | |
| Aroclor-1248 | 12672-29-6 | <20 | <20 | 20 | |
| Aroclor-1254 | 11097-69-1 | <20 | <20 | 20 | |
| Aroclor-1260 | 11096-82-5 | <20 | <20 | 20 | |

# ***FIGURES***

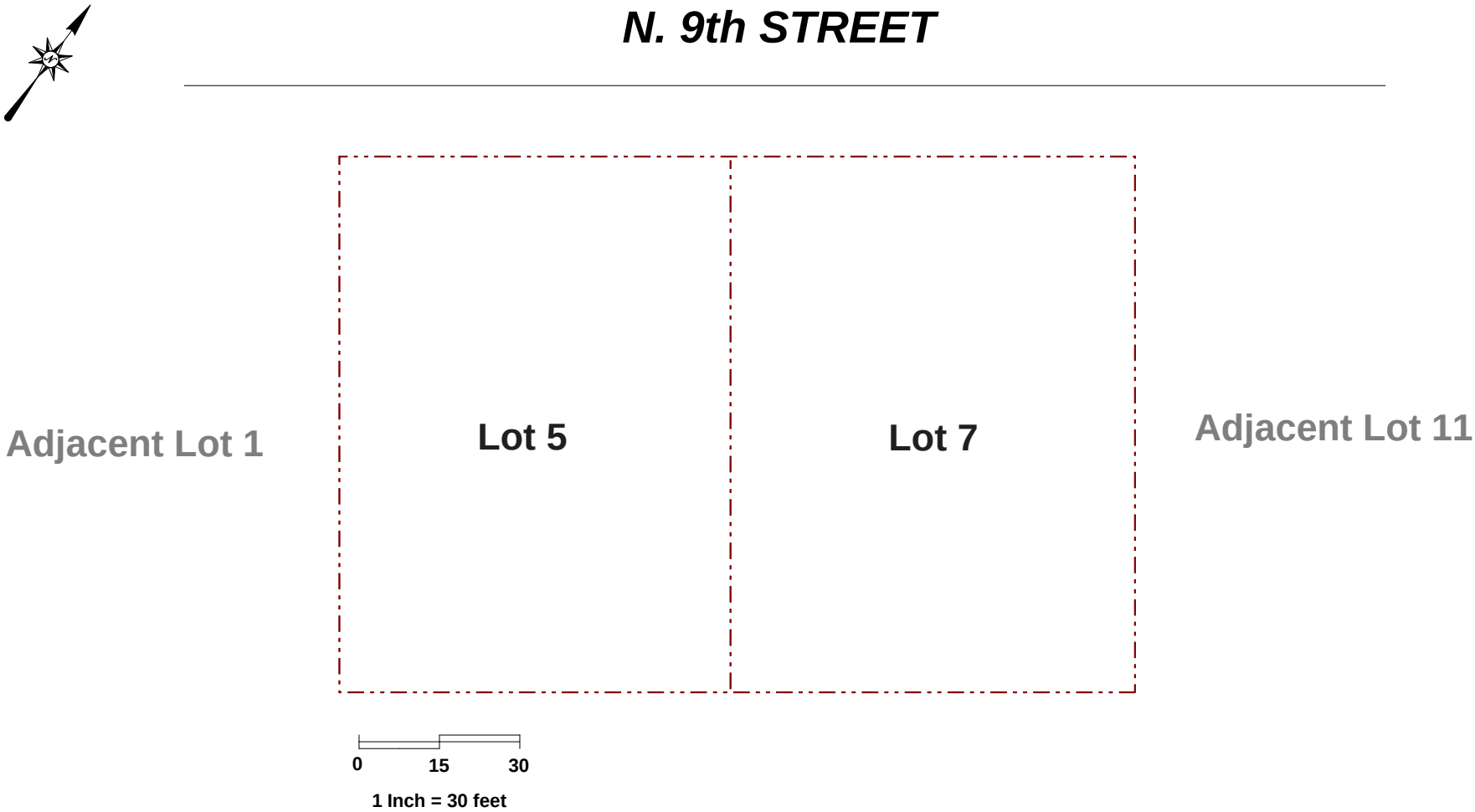



USGS Brooklyn Quadrangle 1995, Contour Interval = 10 feet

EBC
ENVIRONMENTAL BUSINESS CONSULTANTS
Phone 631.504.6000
Fax 631. 924 .2870

212 - 218 N. 9TH STREET, BROOKLYN, NY
BLOCK 2313 LOTS 1 & 5

**FIGURE 1** SITE LOCATION MAP

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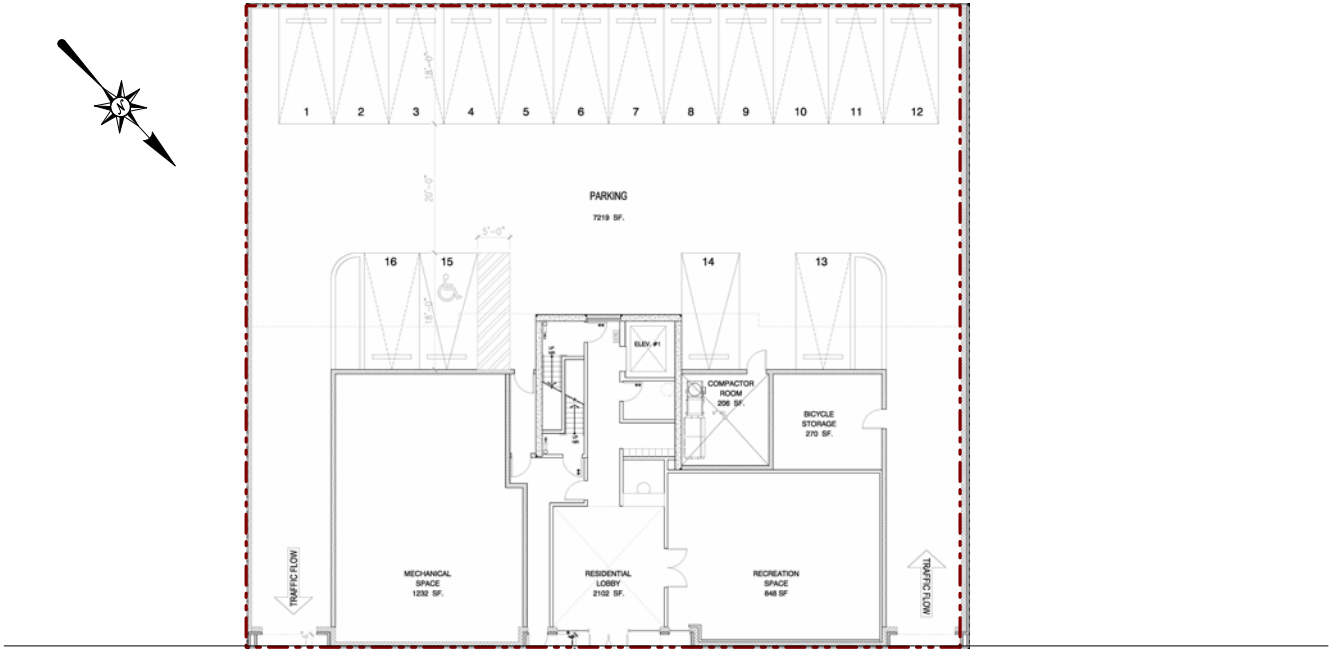
Brooklyn, NY

FIGURE 2 SITE PLAN




SIDEWALK

# N. 9th STREET

**SCALE:**

0 15 30

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212-218 N. 9th Street
Brooklyn, NY

**FIGURE 3** Redevelopment Plan

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

# FIGURE 4

## SURROUNDING LAND USE MAP

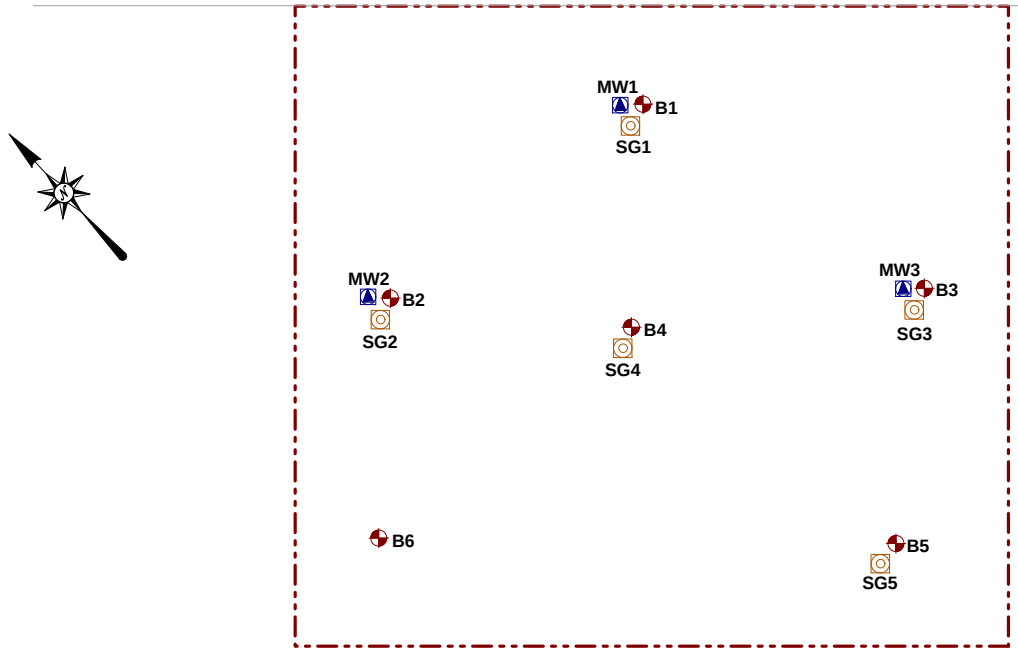
212-218 N. 9th STREET, BROOKLYN, NY

HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT

EBC
ENVIRONMENTAL BUSINESSS CONSULTANTS
1808 MIDDLE COUNTRY ROAD, RIDGE, NEW YORK 11961
PHONE: (631) 504-6000 FAX: (631) 924-2870

# N. 9th STREET

## SIDEWALK




**SCALE:**

0 15 30

1 Inch = 30 feet

**KEY:**

- Soil Boring Location
- Monitoring Well Location
- Soil Gas Location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212-218 N. 9th Street
Brooklyn, NY

**FIGURE 5** Site Plan

# N. 9th STREET

## SIDEWALK

| B1 (0-2') | |
|---|---|
| Benzo(a)anthracene | 1,700 |
| Benzo(a)pyrene | 1,400 |
| Benzo(b)fluoranthene | 2,000 |
| Chrysene | 1,700 |
| Indeno(1,2,3-cd)pyrene | 750 |
| Lead | 135 |
| Mercury | 0.39 |
| Zinc | 224 |

| B2 (0-2') | |
|---|---|
| Benzo(a)anthracene | 3,300 |
| Benzo(a)pyrene | 2,900 |
| Benzo(b)fluoranthene | 3,900 |
| Benzo(k)fluoranthene | 1,000 |
| Chrysene | 3,300 |
| Dibenz(a,h)anthracene | 490 |
| Indeno(1,2,3-cd)pyrene | 1,300 |
| Arsenic | 15.6 |
| Barium | 6,540 |
| Cadmium | 4.29 |
| Chromium | 69.9 |
| Copper | 55.8 |
| Lead | 1,010 |
| Mercury | 0.48 |
| Zinc | 2,630 |

| B3 (0-2') | |
|---|---|
| Benzo(a)anthracene | 1,900 |
| Benzo(a)pyrene | 1,700 |
| Benzo(b)fluoranthene | 2,100 |
| Chrysene | 1,800 |
| Indeno(1,2,3-cd)pyrene | 840 |
| Lead | 165 |
| Mercury | 0.45 |
| Zinc | 122 |

| B3 (4-6') | |
|---|---|
| Chromium | 32 |
| Mercury | 0.32 |

| B4 (0-2') | |
|---|---|
| Mercury | 0.55 |
| Zinc | 139 |

| B6 (0-2') | |
|---|---|
| Benzo(a)anthracene | 15,000 |
| Benzo(a)pyrene | 12,000 |
| Benzo(b)fluoranthene | 17,000 |
| Benzo(k)fluoranthene | 5,100 |
| Chrysene | 14,000 |
| Dibenz(a,h)anthracene | 1,700 |
| Indeno(1,2,3-cd)pyrene | 4,600 |
| Arsenic | 125 |
| Barium | 7,380 |
| Cadmium | 6.96 |
| Chromium | 496 |
| Copper | 157 |
| Lead | 6,620 |
| Mercury | 1.46 |
| Zinc | 5,240 |

| B6 (4-6') | |
|---|---|
| Arsenic | 22 |
| Barium | 644 |
| Chromium | 44.9 |
| Copper | 74.7 |
| Lead | 253 |
| Mercury | 0.18 |
| Nickel | 35.8 |
| Zinc | 200 |

| B5 (0-2') | |
|---|---|
| Chromium | 31 |
| Mercury | 2.69 |

| B5 (4-6') | |
|---|---|
| Mercury | 0.4 |

B1 B2 B3 B4 B5 B6

**SCALE:**

0 15 30

1 Inch = 30 feet

**KEY:**

Soil Boring Location

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Fax: 631.924.2780

212-218 N. 9th Street
Brooklyn, NY

**FIGURE 6** Soil Exceedences Map

# N. 9th STREET

## SIDEWALK

**MW1**

| SVOC | mg/L |
|---|---|
| Benzo(a)anthracene | 0.16 |
| Benzo(b)fluoranthene | 0.17 |
| Benzo(k)fluoranthene | 0.08 |
| Chrysene | 0.15 |
| Indeno(1,2,3-cd)pyrene | 0.09 |

| METAL | DISSOLVED |
|---|---|
| Manganese | 1.0 |
| Sodium | 38.2 |

**MW2**

| SVOC | ug/L |
|---|---|
| 2-Methylphenol | 130 |
| 3&4-Methylphenol | 390 |
| Naphthalene | 15 |
| Phenol | 98 |
| Benzo(a)anthracene | 3.7 |
| Benzo(b)fluoranthene | 4.3 |
| Benzo(k)fluoranthene | 1.4 |
| Chrysene | 3.5 |
| Indeno(1,2,3-cd)pyrene | 2.3 |

| METAL | DISSOLVED |
|---|---|
| Manganese | 0.551 |
| Sodium | 24.1 |

**MW3**

| SVOC | mg/L |
|---|---|
| Benzo(a)anthracene | 0.14 |
| Benzo(b)fluoranthene | 0.13 |
| Benzo(k)fluoranthene | 0.06 |
| Chrysene | 0.13 |
| Indeno(1,2,3-cd)pyrene | 0.07 |

| METAL | DISSOLVED |
|---|---|
| Magnesium | 35.5 |
| Manganese | 1.37 |
| Sodium | 85.3 |

**SCALE:**

0 15 30

1 Inch = 30 feet

**KEY:**

Monitoring Well Location

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Fax: 631.924.2780

212-218 N. 9th Street
Brooklyn, NY

**FIGURE 7** Groundwater Exceedences Map

# N. 9th STREET

## SIDEWALK

SG1

SG2

SG3

SG4

SG5

### SG-1

| Compound | Conc (ug/m3) |
|---|---|
| 1,1,1-Trichloroethane | 2.24 |
| 1,2,4-Trimethylbenzene | 1.3 |
| 1,3-Dichlorobenzene | 1.98 |
| Acetone | 275 |
| Benzene | 21.9 |
| Carbon Disulfide | 18.3 |
| Carbon Tetrachloride | 0.629 |
| Chloroform | 2.34 |
| Cyclohexane | 1.79 |
| Dichlorodifluromethane | 56.3 |
| Ethanol | 31.6 |
| Ethylbenzene | 10 |
| Heptane | 31.6 |
| Hexane | 23.7 |
| Xylene (m&p) | 28.4 |
| Methyl Ethyl Ketone | 6.34 |
| Methylene Chloride | 1.7 |
| Xylene (o) | 6.94 |
| Propylene | 13.8 |
| Tetrachloroethylene | 8 |
| Tetrahydrofuran | 1.03 |
| Toluene | 103 |
| Trichloroethene | 0.591 |
| Trichlorofluoromethane | 199 |

### SG-3

| Compound | Conc (ug/m3) |
|---|---|
| 1,1,1-Trichloroethane | 4.03 |
| 1,2,4-Trimethylbenzene | 2.11 |
| 1,3-Dichlorobenzene | 1.92 |
| 4-Ethyltoluene | 1.33 |
| 4-Methyl-2-Pentanone | 1.02 |
| Acetone | 271 |
| Benzene | 15.2 |
| Carbon Disulfide | 9.02 |
| Carbon Tetrachloride | 0.566 |
| Chloromethane | 1.42 |
| Dichlorodifluromethane | 2.32 |
| Ethanol | 37.3 |
| Ethylbenzene | 15.5 |
| Heptane | 21.5 |
| Hexane | 19.2 |
| Xylene (m&p) | 49.5 |
| Methyl Ethyl Ketone | 8.25 |
| Methylene Chloride | 1.22 |
| Xylene (o) | 11.5 |
| Propylene | 4.9 |
| Tetrachloroethylene | 2.78 |
| Toluene | 111 |
| Trichloroethene | 0.376 |
| Trichlorofluoromethane | 62.3 |

### SG-4

| Compound | Conc (ug/m3) |
|---|---|
| 1,1,1-Trichloroethane | 2.24 |
| 1,2,4-Trimethylbenzene | 1.62 |
| 1,3-Dichlorobenzene | 1.74 |
| Acetone | 148 |
| Benzene | 18.2 |
| Carbon Disulfide | 13.5 |
| Carbon Tetrachloride | 0.566 |
| Chloroform | 9.81 |
| Cyclohexane | 18.1 |
| Dichlorodifluromethane | 170 |
| Ethanol | 78.9 |
| Ethyl Acetate | 13.9 |
| Ethylbenzene | 9.94 |
| Heptane | 22.7 |
| Hexane | 26.9 |
| Xylene (m&p) | 31.7 |
| Xylene (o) | 7.38 |
| Propylene | 101 |
| Tetrachloroethylene | 1.63 |
| Toluene | 72.3 |
| Trichloroethene | 0.43 |
| Trichlorofluoromethane | 340 |

### SG-5

| Compound | Conc (ug/m3) |
|---|---|
| 1,1,1-Trichloroethane | 5.83 |
| 1,2,4-Trimethylbenzene | 3.76 |
| 1,3-Dichlorobenzene | 1.8 |
| 4-Ethyltoluene | 1.57 |
| 4-Methyl-2-Pentanone | 1.1 |
| Acetone | 256 |
| Benzene | 11.6 |
| Carbon Disulfide | 17.5 |
| Carbon Tetrachloride | 0.566 |
| Chloroform | 7.86 |
| Dichlorodifluromethane | 101 |
| Ethanol | 24.3 |
| Ethylbenzene | 15.4 |
| Heptane | 14.4 |
| Hexane | 13 |
| Xylene (m&p) | 551 |
| Methyl Ethyl Ketone | 14.4 |
| Methylene Chloride | 1.49 |
| Xylene (o) | 14 |
| Propylene | 11.6 |
| Tetrachloroethylene | 3.86 |
| Toluene | 73.4 |
| Trichloroethene | 0.591 |

**SCALE:**

0 15 30

**1 Inch = 30 feet**

**KEY:**

Soil Gas Location

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Environmental Business Consultants
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Phone: 631.504.6000
Fax: 631.924.2780

212-218 N. 9th Street
Brooklyn, NY

**FIGURE 8** Soil Gas Detections

# ***APPENDIX A***
# ***Soil Boring Logs***

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B1 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the western portion of the eastern Lot. Located 10ft from the western property boundary and 60ft from the northern property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 2 feet | Geologist Kristen DiScenza | | | |

| B1 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 2 | 16 | | 0.0 | 12" - Black coarse grained silty sands and gravel<br>4" - Brown medium grained silty sands<br>**Retained soil sample B1(0-2)* |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B2 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the southern portion of the western Lot. Located 55ft from the southern property boundary and 25ft from the western property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 2 feet | Geologist Kristen DiScenza | | | |

| B2 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 2 | 11 | | 0.0 | 6" - Black coarse grained sands with gravel and concrete.<br>3" - Brick<br>2" - Brown medium grained silty sands<br>**Retained soil sample B2(0-2)* |
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# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B3 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the eastern portion of the eastern Lot. Located 20ft from the northern property boundary and 50ft from the eastern property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 6 feet | Geologist Kristen DiScenza | | | |

| B3 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 2 | 10 | | 0.0 | 6" - Brown coarse grained sand and gravel<br>3" - Gravel<br>*Retained soil sample B3(0-2)* |
| | to 4 | 12 | | 0.0 | 2" - Brown coarse grained sands and gravel<br>10" - Brown medium/coarse grained silty sands |
| | to 6 | 18 | | 0.0 | 13" - Brown medium/fine grained sandy clays. Slight Plasticity. Damp.<br>5" - Brown medium/fione grained sandy clays with intermittent gravel. Slight Plasticity. Damp.<br>*Retained soil sample B3(4-6)* |
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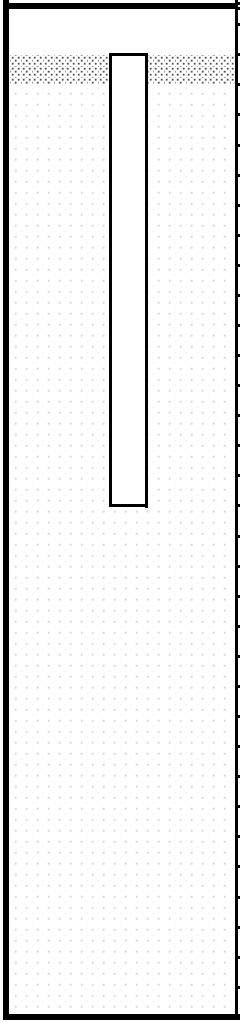
# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B4 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the western portion of the western Lot. Located 35ft from the southern property boundary and 60ft from the western property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 6 feet | Geologist Kristen DiScenza | | | |

| B4 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 2 | 14 | | 0.0 | 9" - Black gravel and concrete with coarse grained sands.<br>5" - Brown medium grained silty sands<br>**Retained soil sample B4(0-2)* |
| | 2 to 4 | 18 | | 0.0 | 16" - Brown medium grained silty sands<br>2" - Brown medium grained sandy clay |
| | 4 to 6 | 18 | | 0.0 | 18" - Brown medium grained sandy clay Damp.<br>**Retained soil sample B4(4-6)* |
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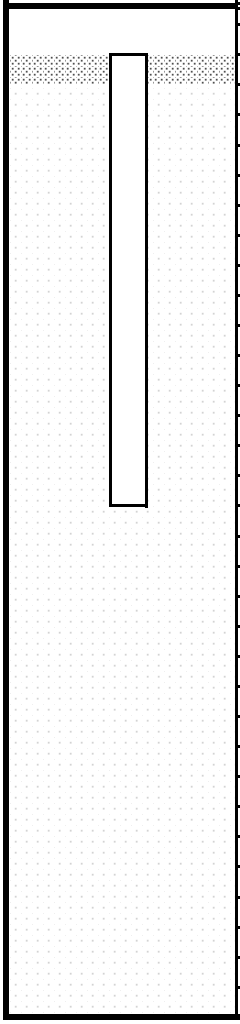
# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B5 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the eastern portion of the eastern Lot. Located 15ft from the eastern property boundary and 30ft from the southern property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 6 feet | Geologist Kristen DiScenza | | | |

| B5 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
|  | 0 to 2 | 10 | | 0.0 | 7" - Dark Brown sandy soil with concrete and brick. Damp.<br>3" - Brown medium/fine grained silty sands<br>**Retained soil sample B5(0-2)* |
| | 2 to 4 | 11 | | 0.0 | 11" - Brown medium/fine grained silty sands. |
| | 4 to 6 | 16 | | 0.0 | 16" - Light Brown fine/medium grained sandy clay. Slight Plasticity. Damp.<br>**Retained soil sample B5(4-6)* |
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# Geologic Boring Log Details

ENVIRONMENTAL BUSINESS CONSULTANTS

## B6 Boring Log

| | | | | |
|---|---|---|---|---|
| Location: Performed on the southern portion of the western Lot. Located15ft from the southern property boundary and 30ft from the western property boundary. | | Depth to Water (ft. from grade.) | | Site Elevation Datum |
| Site Name: FPG1201 | Address: 212-218 N 9th Street, Brooklyn | Date | DTW | Ground Elevation |
| | | Groundwater depth | | |
| Drilling Company: Eastern Environmental Solutions | Method: Geoprobe | | | Well Specifications |
| Date Started: 2/18/2013 | Date Completed: 2/18/2013 | feet | | None |
| Completion Depth: 6 feet | Geologist Kristen DiScenza | | | |

| B6 (NTS) | DEPTH (ft below grade) | SAMPLES Reco-very (in.) | Blow per 6 in. | PID (ppm) | SOIL DESCRIPTION |
|---|---|---|---|---|---|
| | 0 | | | | |
| | to 2 | 20 | | 0.0 | 16" - Concrete, Brick, and gravel with medium grained silty sands.<br>4" - Brown medium grained sands<br>**Retained soil sample B6(0-2)* |
| | to 4 | 12 | | 0.0 | 12" - Brown medium grained sands |
| | to 6 | 17 | | 0.0 | 17" - Brown medium grained silty sands. Damp.<br>**Retained soil sample B6(4-6)* |
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# APPENDIX B
# Laboratory Reports in Digital Format

PHOENIX
Environmental Laboratories, Inc.

**Thursday, February 28, 2013**

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

**Project ID: 212-218 N 9TH ST., BROOKLYN**
**Sample ID#s: BD37427 - BD37437**

**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

February 28, 2013

SDG I.D.: GBD37427

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BD37430 - The client prepared low level vial had too much soil over 10 grams and would not purge. Phoenix prepared sample per method 5035.
BD37434 - The client prepared low level vial had too much soil over 16 grams and would not purge. Phoenix prepared sample per method 5035.

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37427

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B1 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Aluminum | 6780 | 53 | mg/Kg | 02/20/13 | LK | SW6010 |
| Arsenic | 6.0 | 0.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Barium | 145 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Beryllium | 0.40 | 0.28 | mg/Kg | 02/20/13 | LK | SW6010 |
| Calcium | 10200 | 53 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cadmium | 0.76 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cobalt | 6.88 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Chromium | 16.8 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Copper | 46.1 | 0.35 | mg/kg | 02/20/13 | LK | SW6010 |
| Iron | 15900 | 53 | mg/Kg | 02/20/13 | LK | SW6010 |
| Mercury | 0.39 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1230 | 5.3 | mg/Kg | 02/20/13 | LK | SW6010 |
| Magnesium | 2680 | 5.3 | mg/Kg | 02/20/13 | LK | SW6010 |
| Manganese | 258 | 3.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Sodium | 190 | 5.3 | mg/Kg | 02/20/13 | LK | SW6010 |
| Nickel | 13.9 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Lead | 135 | 3.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 02/20/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | EK | SW6010 |
| Vanadium | 24.2 | 0.35 | mg/Kg | 02/20/13 | LK | SW6010 |
| Zinc | 224 | 3.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Percent Solid | 87 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B1 0-2 FT

Phoenix I.D.: BD37427

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1221 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1232 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1242 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1248 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1254 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1260 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1262 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| PCB-1268 | ND | 380 | ug/Kg | 02/21/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 94 | | % | 02/21/13 | AW | 30 - 150 % | |
| % TCMX | 86 | | % | 02/21/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 56 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 85 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 86 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 2.2 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B1 0-2 FT

Phoenix I.D.: BD37427

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 18 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 18 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acetone | ND | 74 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Benzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromoform | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromomethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroform | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloromethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 2.2 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dibromomethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 22 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 7.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methylene chloride | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Naphthalene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| o-Xylene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Styrene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 7.4 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Toluene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Total Xylenes | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 7.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichloroethene | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 3.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 92 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 97 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 02/19/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B1 0-2 FT

Phoenix I.D.: BD37427

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | 570 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | 1700 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 450 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | 1400 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | 2000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | 960 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | 490 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 570 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | 1700 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 4600 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | 750 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | 2700 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 4600 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 86 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 84 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 75 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 79 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B1 0-2 FT

Phoenix I.D.: BD37427

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 79 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 130 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37428

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B2 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.38 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Aluminum | 6540 | 57 | mg/Kg | 02/20/13 | LK | SW6010 |
| Arsenic | 15.6 | 0.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Barium | 6540 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Beryllium | 0.45 | 0.30 | mg/Kg | 02/20/13 | LK | SW6010 |
| Calcium | 25400 | 57 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cadmium | 4.29 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cobalt | 5.76 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Chromium | 69.9 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Copper | 55.8 | 0.38 | mg/kg | 02/20/13 | LK | SW6010 |
| Iron | 14900 | 57 | mg/Kg | 02/20/13 | LK | SW6010 |
| Mercury | 0.48 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1120 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Magnesium | 2420 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Manganese | 384 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Sodium | 861 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Nickel | 11.2 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Lead | 1010 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Antimony | < 3.8 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | EK | SW6010 |
| Vanadium | 26.5 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Zinc | 2630 | 38 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 84 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B2 0-2 FT

Phoenix I.D.: BD37428

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 390 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 115 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 79 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.9 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 59 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 5.9 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 38 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.9 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 12 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 190 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 190 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 63 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 86 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 2.1 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B2 0-2 FT

Phoenix I.D.: BD37428

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 18 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 18 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acetone | ND | 71 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Benzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromoform | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromomethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroform | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloromethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 2.1 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dibromomethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 21 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 7.1 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methylene chloride | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Naphthalene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| o-Xylene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Styrene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 7.1 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Toluene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Total Xylenes | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 7.1 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichloroethene | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 3.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 96 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 104 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 02/19/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B2 0-2 FT

Phoenix I.D.: BD37428

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | 490 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | 1500 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | 3300 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 460 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | 2900 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | 3900 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | 1600 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | 1000 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | 750 | 580 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | 3300 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | 490 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | 310 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 7000 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | 600 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | 1300 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | 6200 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 6100 | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 90 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 82 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 72 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 80 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B2 0-2 FT

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 77 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 97 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37429

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.41 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Aluminum | 3340 | 62 | mg/Kg | 02/20/13 | LK | SW6010 |
| Arsenic | 10.2 | 0.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Barium | 82.7 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Beryllium | < 0.33 | 0.33 | mg/Kg | 02/20/13 | LK | SW6010 |
| Calcium | 3450 | 6.2 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cadmium | < 0.41 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cobalt | 4.40 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Chromium | 13.5 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Copper | 41.4 | 0.41 | mg/kg | 02/20/13 | LK | SW6010 |
| Iron | 9550 | 62 | mg/Kg | 02/20/13 | LK | SW6010 |
| Mercury | 0.45 | 0.09 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 747 | 6.2 | mg/Kg | 02/20/13 | LK | SW6010 |
| Magnesium | 849 | 6.2 | mg/Kg | 02/20/13 | LK | SW6010 |
| Manganese | 108 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Sodium | 133 | 6.2 | mg/Kg | 02/20/13 | LK | SW6010 |
| Nickel | 11.7 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Lead | 165 | 4.1 | mg/Kg | 02/20/13 | LK | SW6010 |
| Antimony | < 4.1 | 4.1 | mg/Kg | 02/20/13 | LK | SW6010 |
| Selenium | < 1.6 | 1.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Thallium | < 0.7 | 0.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 14.9 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Zinc | 122 | 0.41 | mg/Kg | 02/20/13 | LK | SW6010 |
| Percent Solid | 80 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 0-2 FT

Phoenix I.D.: BD37429

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 82 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 82 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 6.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 62 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 8.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 6.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 12 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 200 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 200 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 52 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 69 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.8 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 0-2 FT

Phoenix I.D.: BD37429

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 31 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 31 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Acetone | ND | 130 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Benzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Bromobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Bromoform | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Bromomethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Chloroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Chloroform | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Chloromethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.8 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Dibromomethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 38 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 13 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Methylene chloride | ND | 130 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Naphthalene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| o-Xylene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Styrene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 13 | ug/Kg | 02/21/13 | R/J | SW8260 | 1 |
| Toluene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Total Xylenes | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 13 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Trichloroethene | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 6.3 | ug/Kg | 02/21/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 120 | | % | 02/21/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 74 | | % | 02/21/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 106 | | % | 02/21/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 02/21/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 0-2 FT

Phoenix I.D.: BD37429

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | 540 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | 1100 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | 1900 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 490 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | 1700 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | 2100 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | 1000 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | 630 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | 700 | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | 1800 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | 300 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 6400 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | 470 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | 840 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | 5000 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 5600 | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 95 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 77 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 77 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 79 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B3 0-2 FT

Phoenix I.D.: BD37429

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 79 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 112 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37430

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 4-6 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.38 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Aluminum | 8560 | 57 | mg/Kg | 02/20/13 | LK | SW6010 |
| Arsenic | 5.3 | 0.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Barium | 51.9 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Beryllium | 0.43 | 0.30 | mg/Kg | 02/20/13 | LK | SW6010 |
| Calcium | 2920 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cadmium | < 0.38 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Cobalt | 10.1 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Chromium | 32.0 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Copper | 23.6 | 0.38 | mg/kg | 02/20/13 | LK | SW6010 |
| Iron | 32300 | 57 | mg/Kg | 02/20/13 | LK | SW6010 |
| Mercury | 0.32 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1450 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Magnesium | 2040 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Manganese | 653 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Sodium | 179 | 5.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Nickel | 16.9 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Lead | 24.5 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Antimony | < 3.8 | 3.8 | mg/Kg | 02/20/13 | LK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 02/20/13 | LK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 31.9 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Zinc | 58.1 | 0.38 | mg/Kg | 02/20/13 | LK | SW6010 |
| Percent Solid | 80 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 4-6 FT

Phoenix I.D.: BD37430

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 410 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 82 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 86 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 6.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 62 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 6.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 40 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 6.2 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 12 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 20 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 200 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 200 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 70 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 83 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.8 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1-Dichloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1-Dichloroethene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 4-6 FT

Phoenix I.D.: BD37430

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dibromoethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dichloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dichloropropane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3-Dichloropropane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2,2-Dichloropropane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Chlorotoluene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Hexanone | ND | 31 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Isopropyltoluene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 31 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Acetone | ND | 130 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Acrylonitrile | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Benzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromochloromethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromodichloromethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromoform | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromomethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Carbon Disulfide | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Carbon tetrachloride | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chlorobenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloroform | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloromethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.8 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Dibromomethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Dichlorodifluoromethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Ethylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Hexachlorobutadiene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Isopropylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| m&p-Xylene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 38 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 13 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methylene chloride | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Naphthalene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| n-Butylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| n-Propylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| o-Xylene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| sec-Butylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Styrene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| tert-Butylbenzene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Tetrachloroethene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 13 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| Toluene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Total Xylenes | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 13 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichloroethene | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichlorofluoromethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Vinyl chloride | ND | 6.3 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Dibromofluoromethane | 98 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Toluene-d8 | 98 | | % | 02/20/13 | H/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B3 4-6 FT

Phoenix I.D.: BD37430

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 490 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 99 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 80 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 81 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 80 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B3 4-6 FT

Phoenix I.D.: BD37430

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 82 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 120 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37431

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.36 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 10600 | 54 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 4.9 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 104 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.54 | 0.29 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 10300 | 54 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | < 0.36 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 8.39 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 19.3 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 20.0 | 0.36 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 23100 | 54 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 0.55 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1530 | 5.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2420 | 54 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 620 | 3.6 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 180 | 5.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 12.3 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 45.6 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 3.6 | 3.6 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 31.0 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 139 | 0.36 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 87 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 0-2 FT

Phoenix I.D.: BD37431

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 370 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 85 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 92 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 56 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 86 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 84 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 2.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 0-2 FT

Phoenix I.D.: BD37431

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 22 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 22 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acetone | ND | 87 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Benzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromoform | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Bromomethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloroform | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Chloromethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 2.6 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dibromomethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 26 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 8.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Methylene chloride | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Naphthalene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| o-Xylene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Styrene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 8.7 | ug/Kg | 02/19/13 | R/J | SW8260 | 1 |
| Toluene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Total Xylenes | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 8.7 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichloroethene | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 4.4 | ug/Kg | 02/19/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 119 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 90 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 102 | | % | 02/19/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 02/19/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 0-2 FT

Phoenix I.D.: BD37431

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 460 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 570 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 91 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 84 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 76 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 82 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B4 0-2 FT

Phoenix I.D.: BD37431

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 78 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 115 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37432

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 4-6 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 10600 | 52 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 3.6 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 70.3 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.46 | 0.28 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 2500 | 52 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | < 0.35 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 6.48 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 17.4 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 20.2 | 0.35 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 16900 | 52 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 0.11 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1330 | 5.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2200 | 52 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 345 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 66.4 | 5.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 11.1 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 57.8 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 30.5 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 33.1 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 85 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 4-6 FT

Phoenix I.D.: BD37432

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 76 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 77 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.7 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 57 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 7.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.7 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 72 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 76 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.5 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 4-6 FT

Phoenix I.D.: BD37432

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 29 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 29 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acetone | ND | 120 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Benzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromoform | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroform | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.5 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 35 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 12 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methylene chloride | ND | 59 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Styrene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 12 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 12 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 107 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 102 | | % | 02/20/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 620 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B4 4-6 FT

Phoenix I.D.: BD37432

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 460 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 580 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | ND | 270 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 390 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 98 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 79 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 79 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 81 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B4 4-6 FT

Phoenix I.D.: BD37432

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 81 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 121 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37433

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 12600 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 3.6 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 58.5 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.61 | 0.29 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 1650 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | < 0.37 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 8.54 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 31.0 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 17.7 | 0.37 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 26000 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 2.69 | 0.07 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1840 | 5.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2430 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 359 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 84.2 | 5.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 13.6 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 14.1 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 38.3 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 35.7 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 87 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 0-2 FT

Phoenix I.D.: BD37433

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 89 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 86 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.7 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 57 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 5.7 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 36 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.7 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 82 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 81 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.4 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 0-2 FT

Phoenix I.D.: BD37433

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 29 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 29 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acetone | ND | 110 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Benzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromoform | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromomethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroform | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloromethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.4 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dibromomethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 34 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 11 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methylene chloride | ND | 57 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Naphthalene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| o-Xylene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Styrene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 11 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Toluene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Total Xylenes | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 11 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichloroethene | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 5.7 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 112 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 108 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 103 | | % | 02/20/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 0-2 FT

Phoenix I.D.: BD37433

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 450 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 560 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 370 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 730 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 370 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 69 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 82 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 59 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 80 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Phoenix I.D.: BD37433

Client ID: B5 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 70 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 125 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37434

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 4-6 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.43 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 13300 | 64 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 4.4 | 0.9 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 57.2 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.52 | 0.34 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 1120 | 6.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | < 0.43 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 7.10 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 20.6 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 15.2 | 0.43 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 21800 | 64 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 0.40 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1490 | 6.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2450 | 64 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 379 | 4.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 49.0 | 6.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 13.8 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 52.0 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 4.3 | 4.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.7 | 1.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.7 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Vanadium | 33.8 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 30.0 | 0.43 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 81 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 4-6 FT

Phoenix I.D.: BD37434

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 400 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 84 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 84 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 6.1 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 61 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 6.1 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 39 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 6.1 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 12 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 19 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 190 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 190 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 77 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 84 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.7 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1-Dichloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,1-Dichloroethene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 4-6 FT

Phoenix I.D.: BD37434

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dibromoethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | 1P |
| 1,2-Dichlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dichloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,2-Dichloropropane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,3-Dichloropropane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2,2-Dichloropropane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Chlorotoluene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Hexanone | ND | 31 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 2-Isopropyltoluene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 31 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Acetone | ND | 120 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Acrylonitrile | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Benzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromochloromethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromodichloromethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromoform | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Bromomethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Carbon Disulfide | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Carbon tetrachloride | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chlorobenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloroform | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Chloromethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.7 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Dibromomethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Dichlorodifluoromethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Ethylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Hexachlorobutadiene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Isopropylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| m&p-Xylene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 37 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 12 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Methylene chloride | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Naphthalene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| n-Butylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| n-Propylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| o-Xylene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| sec-Butylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Styrene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| tert-Butylbenzene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Tetrachloroethene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 12 | ug/Kg | 02/20/13 | H/J | SW8260 | 1 |
| Toluene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Total Xylenes | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 12 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichloroethene | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichlorofluoromethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| Vinyl chloride | ND | 6.2 | ug/Kg | 02/20/13 | H/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 96 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Bromofluorobenzene | 86 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | % | 02/20/13 | H/J | 70 - 130 % | |
| % Toluene-d8 | 94 | | % | 02/20/13 | H/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 650 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B5 4-6 FT

Phoenix I.D.: BD37434

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 490 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1200 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | ND | 610 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | ND | 290 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 410 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 91 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 65 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 74 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 49 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B5 4-6 FT

Phoenix I.D.: BD37434

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 76 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 124 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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

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

**Phyllis Shiller, Laboratory Director**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37435

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.42 | 0.42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 7100 | 63 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 125 | 0.8 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 7380 | 4.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 1.26 | 0.34 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 29100 | 63 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | 6.96 | 0.42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 9.19 | 0.42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 496 | 4.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 157 | 0.42 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 45700 | 63 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 1.46 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1250 | 6.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2580 | 63 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 1230 | 4.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 1240 | 6.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 15.7 | 0.42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 6620 | 42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | 43.6 | 4.2 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.7 | 1.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.7 | 0.7 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 37.0 | 0.42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 5240 | 42 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 76 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 0-2 FT

Phoenix I.D.: BD37435

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 440 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 80 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 61 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 6.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 66 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 6.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 42 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 6.6 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 13 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 21 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 210 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 210 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 66 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 68 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 3.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 0-2 FT

Phoenix I.D.: BD37435

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | 14 | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | 7.0 | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 33 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 33 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acetone | ND | 130 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Benzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromoform | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromomethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroform | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloromethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 3.9 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dibromomethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 39 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 13 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methylene chloride | ND | 220 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Naphthalene | 3700 | 320 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| o-Xylene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Styrene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 13 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Toluene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Total Xylenes | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 13 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichloroethene | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 6.6 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 107 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 71 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 107 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 94 | | % | 02/20/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 700 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | 1800 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 700 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 700 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1300 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 700 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 0-2 FT

Phoenix I.D.: BD37435

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1300 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | 3300 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | 730 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1300 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | 9400 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | 15000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 520 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | 12000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | 17000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | 4200 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | 5100 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1300 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | 7000 | 660 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | 14000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | 1700 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | 3400 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 32000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | 5200 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | 4600 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | 4100 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | 36000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 26000 | 310 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 440 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 87 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 74 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 69 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 75 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Phoenix I.D.: BD37435

Client ID: B6 0-2 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 71 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 74 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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**
**February 28, 2013**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37436

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 4-6 FT

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.37 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 11700 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 22.0 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 644 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.74 | 0.29 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 10500 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | 1.36 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 7.64 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 44.9 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 74.7 | 0.37 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 41000 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 0.18 | 0.07 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1910 | 5.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 3410 | 55 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 298 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 553 | 5.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 35.8 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 253 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 3.7 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.5 | 1.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | LK | SW6010 |
| Vanadium | 45.1 | 0.37 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 200 | 3.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 91 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 4-6 FT

Phoenix I.D.: BD37436

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 360 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 86 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 92 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.4 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 54 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 13 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 35 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.4 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 11 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 17 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 170 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 170 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 103 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 82 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 170 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,1-Dichloroethene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 4-6 FT

Phoenix I.D.: BD37436

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dibromoethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,2-Dichloropropane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,3-Dichloropropane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2,2-Dichloropropane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Chlorotoluene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Hexanone | ND | 1400 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 2-Isopropyltoluene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 1400 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acetone | ND | 5500 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Acrylonitrile | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Benzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromochloromethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromodichloromethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromoform | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Bromomethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon Disulfide | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Carbon tetrachloride | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chlorobenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloroform | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Chloromethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Dibromochloromethane | ND | 170 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dibromomethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Dichlorodifluoromethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Ethylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Hexachlorobutadiene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Isopropylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| m&p-Xylene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 1700 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 550 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Methylene chloride | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Naphthalene | 9100 | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Butylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| n-Propylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| o-Xylene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| sec-Butylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Styrene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| tert-Butylbenzene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrachloroethene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 550 | ug/Kg | 02/20/13 | R/J | SW8260 | 1 |
| Toluene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Total Xylenes | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 550 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichloroethene | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorofluoromethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| Vinyl chloride | ND | 280 | ug/Kg | 02/20/13 | R/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Bromofluorobenzene | 99 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | % | 02/20/13 | R/J | 70 - 130 % | |
| % Toluene-d8 | 102 | | % | 02/20/13 | R/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 5800 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 5800 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 5800 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 11000 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 5800 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: B6 4-6 FT

Phoenix I.D.: BD37436

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 11000 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Acenaphthene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Acenaphthylene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Acetophenone | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Aniline | ND | 11000 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Anthracene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benz(a)anthracene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzidine | ND | 4400 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzo(a)pyrene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzo(b)fluoranthene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzo(ghi)perylene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzo(k)fluoranthene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Benzoic acid | ND | 11000 | ug/Kg | 02/20/13 | DD | SW 8270 | LO |
| Benzyl butyl phthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Bis(2-chloroethoxy)methane | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Bis(2-chloroethyl)ether | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Bis(2-chloroisopropyl)ether | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Bis(2-ethylhexyl)phthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Carbazole | ND | 5500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Chrysene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Dibenz(a,h)anthracene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Dibenzofuran | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Diethyl phthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Dimethylphthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Di-n-butylphthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Di-n-octylphthalate | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Fluoranthene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Fluorene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Hexachlorobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Hexachlorobutadiene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Hexachlorocyclopentadiene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Hexachloroethane | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Indeno(1,2,3-cd)pyrene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Isophorone | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Naphthalene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Nitrobenzene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| N-Nitrosodimethylamine | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| N-Nitrosodi-n-propylamine | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| N-Nitrosodiphenylamine | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Pentachloronitrobenzene | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Pentachlorophenol | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Phenanthrene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Phenol | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Pyrene | ND | 2500 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| Pyridine | ND | 3600 | ug/Kg | 02/20/13 | DD | SW 8270 | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | *Diluted Out | | % | 02/20/13 | DD | 30 - 130 % | |
| % 2-Fluorobiphenyl | *Diluted Out | | % | 02/20/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | *Diluted Out | | % | 02/20/13 | DD | 30 - 130 % | |
| % Nitrobenzene-d5 | *Diluted Out | | % | 02/20/13 | DD | 30 - 130 % | |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: B6 4-6 FT

Phoenix I.D.: BD37436

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | *Diluted Out | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | *Diluted Out | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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 semivolatile analysis.

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

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

**Phyllis Shiller, Laboratory Director**
**February 28, 2013**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

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

February 28, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | SOIL | Collected by: | | 02/18/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/19/13 | 15:30 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD37427
Phoenix ID: BD37437

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: DUPLICATE

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.35 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Aluminum | 8320 | 53 | mg/Kg | 02/20/13 | EK | SW6010 |
| Arsenic | 7.5 | 0.7 | mg/Kg | 02/20/13 | EK | SW6010 |
| Barium | 251 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Beryllium | 0.53 | 0.28 | mg/Kg | 02/20/13 | EK | SW6010 |
| Calcium | 10900 | 53 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cadmium | 0.57 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Cobalt | 6.88 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Chromium | 25.5 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Copper | 70.4 | 0.35 | mg/kg | 02/20/13 | EK | SW6010 |
| Iron | 20500 | 53 | mg/Kg | 02/20/13 | EK | SW6010 |
| Mercury | 0.86 | 0.08 | mg/Kg | 02/20/13 | RS | SW-7471 |
| Potassium | 1250 | 5.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Magnesium | 2580 | 53 | mg/Kg | 02/20/13 | EK | SW6010 |
| Manganese | 278 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Sodium | 356 | 5.3 | mg/Kg | 02/20/13 | EK | SW6010 |
| Nickel | 15.7 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Lead | 237 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Antimony | < 3.5 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Selenium | < 1.4 | 1.4 | mg/Kg | 02/20/13 | EK | SW6010 |
| Thallium | < 0.6 | 0.6 | mg/Kg | 02/20/13 | EK | SW6010 |
| Vanadium | 27.2 | 0.35 | mg/Kg | 02/20/13 | EK | SW6010 |
| Zinc | 387 | 3.5 | mg/Kg | 02/20/13 | EK | SW6010 |
| Percent Solid | 86 | | % | 02/19/13 | jl | E160.3 |
| Soil Extraction for PCB | Completed | | | 02/19/13 | BB/V | SW3545 |
| Soil Extraction for Pesticide | Completed | | | 02/19/13 | BB | SW3545 |
| Soil Extraction for SVOA | Completed | | | 02/19/13 | BJ/V | SW3545 |
| Mercury Digestion | Completed | | | 02/20/13 | X/X | SW7471 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: DUPLICATE

Phoenix I.D.: BD37437

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Total Metals Digest | Completed | | | 02/19/13 | AG | SW846 - 3050 | |
| Field Extraction | Completed | | | 02/18/13 | | SW5035 | |
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1221 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1232 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1242 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1248 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1254 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1260 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1262 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| PCB-1268 | ND | 380 | ug/Kg | 02/20/13 | AW | SW 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 110 | | % | 02/20/13 | AW | 30 - 150 % | |
| % TCMX | 83 | | % | 02/20/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| a-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Alachlor | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | 1 |
| Aldrin | ND | 5.8 | ug/Kg | 02/20/13 | MH | SW8081 | |
| b-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Chlordane | ND | 58 | ug/Kg | 02/20/13 | MH | SW8081 | |
| d-BHC | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Dieldrin | ND | 5.8 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan I | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan II | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endosulfan sulfate | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin aldehyde | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Endrin ketone | ND | 37 | ug/Kg | 02/20/13 | MH | SW8081 | |
| g-BHC | ND | 5.8 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor | ND | 12 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Heptachlor epoxide | ND | 18 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Methoxychlor | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| Toxaphene | ND | 180 | ug/Kg | 02/20/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 84 | | % | 02/20/13 | MH | 30 - 150 % | |
| % TCMX | 82 | | % | 02/20/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,1,1-Trichloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 2.7 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,1,2-Trichloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,1-Dichloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,1-Dichloroethene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: DUPLICATE

Phoenix I.D.: BD37437

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloropropene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2,3-Trichloropropane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2-Dibromoethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | IP |
| 1,2-Dichlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2-Dichloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,2-Dichloropropane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,3-Dichlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,3-Dichloropropane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 1,4-Dichlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 2,2-Dichloropropane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 2-Chlorotoluene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 2-Hexanone | ND | 23 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 2-Isopropyltoluene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | 1 |
| 4-Chlorotoluene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| 4-Methyl-2-pentanone | ND | 23 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Acetone | ND | 91 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Acrylonitrile | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Benzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Bromobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Bromochloromethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Bromodichloromethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Bromoform | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Bromomethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Carbon Disulfide | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Carbon tetrachloride | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Chlorobenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Chloroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Chloroform | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Chloromethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| cis-1,2-Dichloroethene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| cis-1,3-Dichloropropene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | 1 |
| Dibromochloromethane | ND | 2.7 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Dibromomethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Dichlorodifluoromethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Ethylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Hexachlorobutadiene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Isopropylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| m&p-Xylene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Methyl Ethyl Ketone | ND | 27 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 9.1 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Methylene chloride | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Naphthalene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| n-Butylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| n-Propylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| o-Xylene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| sec-Butylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Styrene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| tert-Butylbenzene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Tetrachloroethene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Tetrahydrofuran (THF) | ND | 9.1 | ug/Kg | 02/19/13 | H/J | SW8260 | 1 |
| Toluene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Total Xylenes | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| trans-1,2-Dichloroethene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| trans-1,3-Dichloropropene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 9.1 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Trichloroethene | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Trichlorofluoromethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Trichlorotrifluoroethane | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| Vinyl chloride | ND | 4.5 | ug/Kg | 02/19/13 | H/J | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 103 | | % | 02/19/13 | H/J | 70 - 130 % | |
| % Bromofluorobenzene | 89 | | % | 02/19/13 | H/J | 70 - 130 % | |
| % Dibromofluoromethane | 100 | | % | 02/19/13 | H/J | 70 - 130 % | |
| % Toluene-d8 | 96 | | % | 02/19/13 | H/J | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2,4-Trichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,2-Diphenylhydrazine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,3-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 1,4-Dichlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,5-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4,6-Trichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dichlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dimethylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrophenol | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,4-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2,6-Dinitrotoluene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chloronaphthalene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Chlorophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylnaphthalene | 1200 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Methylphenol (o-cresol) | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 2-Nitrophenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3,3'-Dichlorobenzidine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 3-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4,6-Dinitro-2-methylphenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Bromophenyl phenyl ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloro-3-methylphenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chloroaniline | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Chlorophenyl phenyl ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| 4-Nitroaniline | ND | 600 | ug/Kg | 02/20/13 | DD | SW 8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: DUPLICATE

Phoenix I.D.: BD37437

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthene | 1800 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acenaphthylene | 740 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Acetophenone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Aniline | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Anthracene | 5000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benz(a)anthracene | 9100 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzidine | ND | 450 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(a)pyrene | 7600 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(b)fluoranthene | 11000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(ghi)perylene | 2900 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzo(k)fluoranthene | 3100 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Benzoic acid | ND | 1100 | ug/Kg | 02/20/13 | DD | SW 8270 LO |
| Benzyl butyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethoxy)methane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroethyl)ether | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-chloroisopropyl)ether | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Bis(2-ethylhexyl)phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Carbazole | 2400 | 570 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Chrysene | 9100 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenz(a,h)anthracene | 1000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dibenzofuran | 1500 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Diethyl phthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Dimethylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-butylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Di-n-octylphthalate | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluoranthene | 19000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Fluorene | 2200 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorobutadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachlorocyclopentadiene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Hexachloroethane | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Indeno(1,2,3-cd)pyrene | 2900 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Isophorone | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Naphthalene | 2200 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Nitrobenzene | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodimethylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodi-n-propylamine | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| N-Nitrosodiphenylamine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachloronitrobenzene | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pentachlorophenol | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenanthrene | 21000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Phenol | ND | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyrene | 17000 | 260 | ug/Kg | 02/20/13 | DD | SW 8270 |
| Pyridine | ND | 380 | ug/Kg | 02/20/13 | DD | SW 8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 89 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorobiphenyl | 81 | | % | 02/20/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 73 | | % | 02/20/13 | DD | 30 - 130 % |
| % Nitrobenzene-d5 | 82 | | % | 02/20/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Client ID: DUPLICATE

Phoenix I.D.: BD37437

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| % Phenol-d5 | 78 | | % | 02/20/13 | DD | 30 - 130 % |
| % Terphenyl-d14 | 82 | | % | 02/20/13 | 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.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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.

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**

**February 28, 2013**

**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

February 28, 2013

## QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 221575, QC Sample No: BD37313 (BD37427, BD37428, BD37429, BD37430, BD37431, BD37432, BD37433, BD37434, BD37435, BD37436, BD37437) | | | | | | | | | | | | | |
| **ICP Metals - Soil** | | | | | | | | | | | | | |
| Aluminum | BRL | 9670 | 11100 | 13.8 | 108 | 113 | 4.5 | NC | NC | NC | 75 - 125 | 30 | |
| Antimony | BRL | <4.0 | <4.1 | NC | 85.9 | 82.9 | 3.6 | 80.9 | 76.1 | 6.1 | 75 - 125 | 30 | |
| Arsenic | BRL | 8.6 | 9.42 | 9.10 | 95.2 | 98.0 | 2.9 | 90.9 | 84.6 | 7.2 | 75 - 125 | 30 | |
| Barium | BRL | 66.7 | 82.1 | 20.7 | 105 | 107 | 1.9 | 69.5 | 61.8 | 11.7 | 75 - 125 | 30 | m |
| Beryllium | BRL | 0.47 | 0.51 | NC | 97.9 | 98.6 | 0.7 | 93.7 | 87.4 | 7.0 | 75 - 125 | 30 | |
| Cadmium | BRL | <0.40 | <0.41 | NC | 97.0 | 99.3 | 2.3 | 92.6 | 86.7 | 6.6 | 75 - 125 | 30 | |
| Calcium | BRL | 1990 | 2610 | 27.0 | 94.0 | 97.7 | 3.9 | NC | NC | NC | 75 - 125 | 30 | |
| Chromium | BRL | 17.4 | 18.9 | 8.30 | 105 | 104 | 1.0 | 98.1 | 89.1 | 9.6 | 75 - 125 | 30 | |
| Cobalt | BRL | 7.89 | 8.43 | 6.60 | 98.5 | 101 | 2.5 | 93.5 | 87.3 | 6.9 | 75 - 125 | 30 | |
| Copper | BRL | 47.4 | 40.2 | 16.4 | 101 | 104 | 2.9 | 95.3 | 85.8 | 10.5 | 75 - 125 | 30 | |
| Iron | BRL | 17000 | 17700 | 4.00 | 99.9 | 98.5 | 1.4 | NC | NC | NC | 75 - 125 | 30 | |
| Lead | BRL | 52.7 | 58.1 | 9.70 | 104 | 98.0 | 5.9 | 93.3 | 84.8 | 9.5 | 75 - 125 | 30 | |
| Magnesium | BRL | 3400 | 3760 | 10.1 | 98.2 | 99.1 | 0.9 | NC | NC | NC | 75 - 125 | 30 | |
| Manganese | BRL | 307 | 308 | 0.30 | 99.6 | 105 | 5.3 | 86.0 | 95.3 | 10.3 | 75 - 125 | 30 | |
| Nickel | BRL | 16.2 | 17.7 | 8.80 | 98.1 | 100 | 1.9 | 93.3 | 86.5 | 7.6 | 75 - 125 | 30 | |
| Potassium | BRL | 1580 | 1840 | 15.2 | 110 | 110 | 0.0 | >130 | >130 | NC | 75 - 125 | 30 | m |
| Selenium | BRL | <1.6 | <1.6 | NC | 109 | 114 | 4.5 | 84.1 | 79.0 | 6.3 | 75 - 125 | 30 | |
| Silver | BRL | <0.40 | <0.41 | NC | 97.0 | 98.0 | 1.0 | 96.2 | 90.1 | 6.5 | 75 - 125 | 30 | |
| Sodium | BRL | 171 | 223 | 26.4 | 107 | 111 | 3.7 | >130 | >130 | NC | 75 - 125 | 30 | m |
| Thallium | BRL | <3.6 | <3.7 | NC | 98.8 | 102 | 3.2 | 91.0 | 85.7 | 6.0 | 75 - 125 | 30 | |
| Vanadium | BRL | 30.8 | 30.6 | 0.70 | 106 | 108 | 1.9 | 97.2 | 88.6 | 9.3 | 75 - 125 | 30 | |
| Zinc | BRL | 55.1 | 59.7 | 8.00 | 97.4 | 100 | 2.6 | 93.9 | 85.1 | 9.8 | 75 - 125 | 30 | |
| QA/QC Batch 221611, QC Sample No: BD37313 (BD37427, BD37428, BD37429, BD37430, BD37431, BD37432, BD37433, BD37434, BD37435, BD37436, BD37437) | | | | | | | | | | | | | |
| Mercury - Soil | BRL | <0.08 | 0.12 | NC | 87.9 | 88.3 | 0.5 | 105 | 99.1 | 5.8 | 70 - 130 | 30 | |

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.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

February 28, 2013

## QA/QC Data

SDG I.D.: GBD37427

QA/QC Batch 221568, QC Sample No: BD37313 (BD37427, BD37428, BD37429, BD37430, BD37431, BD37432, BD37433, BD37434, BD37435, BD37436, BD37437)

### Semivolatiles - Soil

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 64 | 63 | 1.6 | 71 | 72 | 1.4 | 30 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 66 | 63 | 4.7 | 72 | 72 | 0.0 | 30 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 70 | 67 | 4.4 | 79 | 77 | 2.6 | 30 - 130 | 30 | |
| 1,2-Diphenylhydrazine | ND | 81 | 80 | 1.2 | 92 | 92 | 0.0 | 30 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 71 | 67 | 5.8 | 79 | 76 | 3.9 | 30 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 71 | 68 | 4.3 | 80 | 77 | 3.8 | 30 - 130 | 30 | |
| 2,4,5-Trichlorophenol | ND | 73 | 69 | 5.6 | 83 | 84 | 1.2 | 30 - 130 | 30 | |
| 2,4,6-Trichlorophenol | ND | 76 | 72 | 5.4 | 88 | 88 | 0.0 | 30 - 130 | 30 | |
| 2,4-Dichlorophenol | ND | 69 | 67 | 2.9 | 78 | 79 | 1.3 | 30 - 130 | 30 | |
| 2,4-Dimethylphenol | ND | 53 | 51 | 3.8 | 61 | 59 | 3.3 | 30 - 130 | 30 | |
| 2,4-Dinitrophenol | ND | <5 | <5 | NC | 11 | 6.0 | 58.8 | 30 - 130 | 30 | l,m,r |
| 2,4-Dinitrotoluene | ND | 74 | 74 | 0.0 | 86 | 88 | 2.3 | 30 - 130 | 30 | |
| 2,6-Dinitrotoluene | ND | 78 | 77 | 1.3 | 90 | 90 | 0.0 | 30 - 130 | 30 | |
| 2-Chloronaphthalene | ND | 76 | 74 | 2.7 | 87 | 86 | 1.2 | 30 - 130 | 30 | |
| 2-Chlorophenol | ND | 72 | 69 | 4.3 | 82 | 82 | 0.0 | 30 - 130 | 30 | |
| 2-Methylnaphthalene | ND | 68 | 66 | 3.0 | 77 | 78 | 1.3 | 30 - 130 | 30 | |
| 2-Methylphenol (o-cresol) | ND | 70 | 69 | 1.4 | 79 | 78 | 1.3 | 30 - 130 | 30 | |
| 2-Nitroaniline | ND | 113 | 117 | 3.5 | 125 | 125 | 0.0 | 30 - 130 | 30 | |
| 2-Nitrophenol | ND | 68 | 68 | 0.0 | 78 | 81 | 3.8 | 30 - 130 | 30 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 73 | 71 | 2.8 | 82 | 80 | 2.5 | 30 - 130 | 30 | |
| 3,3'-Dichlorobenzidine | ND | >150 | >150 | NC | 146 | 134 | 8.6 | 30 - 130 | 30 | l,m |
| 3-Nitroaniline | ND | 79 | 78 | 1.3 | 91 | 91 | 0.0 | 30 - 130 | 30 | |
| 4,6-Dinitro-2-methylphenol | ND | 37 | 40 | 7.8 | 72 | 61 | 16.5 | 30 - 130 | 30 | |
| 4-Bromophenyl phenyl ether | ND | 79 | 75 | 5.2 | 89 | 87 | 2.3 | 30 - 130 | 30 | |
| 4-Chloro-3-methylphenol | ND | 67 | 67 | 0.0 | 78 | 80 | 2.5 | 30 - 130 | 30 | |
| 4-Chloroaniline | ND | 81 | 79 | 2.5 | 76 | 71 | 6.8 | 30 - 130 | 30 | |
| 4-Chlorophenyl phenyl ether | ND | 75 | 72 | 4.1 | 85 | 85 | 0.0 | 30 - 130 | 30 | |
| 4-Nitroaniline | ND | 85 | 85 | 0.0 | 98 | 99 | 1.0 | 30 - 130 | 30 | |
| 4-Nitrophenol | ND | 71 | 72 | 1.4 | 87 | 90 | 3.4 | 30 - 130 | 30 | |
| Acenaphthene | ND | 76 | 73 | 4.0 | 88 | 86 | 2.3 | 30 - 130 | 30 | |
| Acenaphthylene | ND | 77 | 75 | 2.6 | 91 | 89 | 2.2 | 30 - 130 | 30 | |
| Acetophenone | ND | 76 | 74 | 2.7 | 87 | 86 | 1.2 | 30 - 130 | 30 | |
| Aniline | ND | 81 | 78 | 3.8 | 83 | 73 | 12.8 | 30 - 130 | 30 | |
| Anthracene | ND | 81 | 77 | 5.1 | 85 | 85 | 0.0 | 30 - 130 | 30 | |
| Benz(a)anthracene | ND | 75 | 73 | 2.7 | 74 | 73 | 1.4 | 30 - 130 | 30 | |
| Benzidine | ND | 53 | 48 | 9.9 | 13 | 9.1 | 35.3 | 30 - 130 | 30 | m,r |
| Benzo(a)pyrene | ND | 74 | 70 | 5.6 | 73 | 73 | 0.0 | 30 - 130 | 30 | |
| Benzo(b)fluoranthene | ND | 86 | 81 | 6.0 | 77 | 71 | 8.1 | 30 - 130 | 30 | |
| Benzo(ghi)perylene | ND | 64 | 63 | 1.6 | 80 | 84 | 4.9 | 30 - 130 | 30 | |
| Benzo(k)fluoranthene | ND | 88 | 83 | 5.8 | 95 | 96 | 1.0 | 30 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzyl butyl phthalate | ND | 73 | 69 | 5.6 | 84 | 91 | 8.0 | 30 - 130 | 30 | |
| Bis(2-chloroethoxy)methane | ND | 76 | 73 | 4.0 | 84 | 83 | 1.2 | 30 - 130 | 30 | |
| Bis(2-chloroethyl)ether | ND | 73 | 71 | 2.8 | 82 | 82 | 0.0 | 30 - 130 | 30 | |
| Bis(2-chloroisopropyl)ether | ND | 82 | 80 | 2.5 | 95 | 91 | 4.3 | 30 - 130 | 30 | |
| Bis(2-ethylhexyl)phthalate | ND | 85 | 81 | 4.8 | 96 | 97 | 1.0 | 30 - 130 | 30 | |
| Carbazole | ND | 96 | 94 | 2.1 | 111 | 113 | 1.8 | 30 - 130 | 30 | |
| Chrysene | ND | 78 | 75 | 3.9 | 67 | 67 | 0.0 | 30 - 130 | 30 | |
| Dibenz(a,h)anthracene | ND | 66 | 64 | 3.1 | 90 | 93 | 3.3 | 30 - 130 | 30 | |
| Dibenzofuran | ND | 77 | 75 | 2.6 | 88 | 88 | 0.0 | 30 - 130 | 30 | |
| Diethyl phthalate | ND | 78 | 76 | 2.6 | 87 | 88 | 1.1 | 30 - 130 | 30 | |
| Dimethylphthalate | ND | 78 | 76 | 2.6 | 88 | 87 | 1.1 | 30 - 130 | 30 | |
| Di-n-butylphthalate | ND | 85 | 80 | 6.1 | 93 | 92 | 1.1 | 30 - 130 | 30 | |
| Di-n-octylphthalate | ND | 86 | 83 | 3.6 | 90 | 86 | 4.5 | 30 - 130 | 30 | |
| Fluoranthene | ND | 82 | 77 | 6.3 | 12 | 18 | 40.0 | 30 - 130 | 30 | m,r |
| Fluorene | ND | 77 | 75 | 2.6 | 88 | 89 | 1.1 | 30 - 130 | 30 | |
| Hexachlorobenzene | ND | 85 | 81 | 4.8 | 94 | 93 | 1.1 | 30 - 130 | 30 | |
| Hexachlorobutadiene | ND | 65 | 63 | 3.1 | 72 | 73 | 1.4 | 30 - 130 | 30 | |
| Hexachlorocyclopentadiene | ND | 48 | 50 | 4.1 | 43 | 38 | 12.3 | 30 - 130 | 30 | |
| Hexachloroethane | ND | 68 | 67 | 1.5 | 77 | 75 | 2.6 | 30 - 130 | 30 | |
| Indeno(1,2,3-cd)pyrene | ND | 66 | 65 | 1.5 | 81 | 85 | 4.8 | 30 - 130 | 30 | |
| Isophorone | ND | 79 | 76 | 3.9 | 86 | 86 | 0.0 | 30 - 130 | 30 | |
| Naphthalene | ND | 74 | 72 | 2.7 | 84 | 84 | 0.0 | 30 - 130 | 30 | |
| Nitrobenzene | ND | 76 | 74 | 2.7 | 86 | 85 | 1.2 | 30 - 130 | 30 | |
| N-Nitrosodimethylamine | ND | 74 | 71 | 4.1 | 82 | 81 | 1.2 | 30 - 130 | 30 | |
| N-Nitrosodi-n-propylamine | ND | 76 | 75 | 1.3 | 87 | 87 | 0.0 | 30 - 130 | 30 | |
| N-Nitrosodiphenylamine | ND | 83 | 81 | 2.4 | 94 | 96 | 2.1 | 30 - 130 | 30 | |
| Pentachloronitrobenzene | ND | 77 | 74 | 4.0 | 88 | 88 | 0.0 | 30 - 130 | 30 | |
| Pentachlorophenol | ND | 40 | 41 | 2.5 | 65 | 66 | 1.5 | 30 - 130 | 30 | |
| Phenanthrene | ND | 82 | 78 | 5.0 | 45 | 49 | 8.5 | 30 - 130 | 30 | |
| Phenol | ND | 85 | 81 | 4.8 | 89 | 88 | 1.1 | 30 - 130 | 30 | |
| Pyrene | ND | 84 | 78 | 7.4 | 40 | 48 | 18.2 | 30 - 130 | 30 | |
| Pyridine | ND | 63 | 58 | 8.3 | 67 | 62 | 7.8 | 30 - 130 | 30 | |
| % 2,4,6-Tribromophenol | 80 | 88 | 82 | 7.1 | 99 | 97 | 2.0 | 30 - 130 | 30 | |
| % 2-Fluorobiphenyl | 74 | 81 | 75 | 7.7 | 88 | 86 | 2.3 | 30 - 130 | 30 | |
| % 2-Fluorophenol | 68 | 73 | 68 | 7.1 | 79 | 78 | 1.3 | 30 - 130 | 30 | |
| % Nitrobenzene-d5 | 72 | 76 | 73 | 4.0 | 85 | 85 | 0.0 | 30 - 130 | 30 | |
| % Phenol-d5 | 70 | 75 | 70 | 6.9 | 82 | 81 | 1.2 | 30 - 130 | 30 | |
| % Terphenyl-d14 | 79 | 92 | 82 | 11.5 | 98 | 108 | 9.7 | 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 221655, QC Sample No: BD37425 (BD37427, BD37428, BD37431)

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 108 | 111 | 2.7 | 105 | 107 | 1.9 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 108 | 106 | 1.9 | 112 | 114 | 1.8 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 97 | 100 | 3.0 | 109 | 116 | 6.2 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 105 | 105 | 0.0 | 101 | 110 | 8.5 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 115 | 100 | 14.0 | 107 | 118 | 9.8 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 109 | 101 | 7.6 | 110 | 112 | 1.8 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 109 | 109 | 0.0 | 110 | 111 | 0.9 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 113 | 103 | 9.3 | 68 | 79 | 15.0 | 70 - 130 | 30 | m |
| 1,2,3-Trichloropropane | ND | 90 | 114 | 23.5 | 115 | 114 | 0.9 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 113 | 104 | 8.3 | 75 | 83 | 10.1 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 108 | 109 | 0.9 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 103 | 108 | 4.7 | 96 | 106 | 9.9 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 103 | 101 | 2.0 | 97 | 108 | 10.7 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 105 | 105 | 0.0 | 95 | 99 | 4.1 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 103 | 102 | 1.0 | 103 | 112 | 8.4 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 105 | 105 | 0.0 | 108 | 112 | 3.6 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 107 | 109 | 1.9 | 114 | 112 | 1.8 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 107 | 108 | 0.9 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 103 | 102 | 1.0 | 101 | 107 | 5.8 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 107 | 106 | 0.9 | 98 | 100 | 2.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 117 | 109 | 7.1 | 109 | 114 | 4.5 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 105 | 106 | 0.9 | 107 | 106 | 0.9 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 95 | 95 | 0.0 | 70 | 69 | 1.4 | 70 - 130 | 30 | m |
| 2-Isopropyltoluene | ND | 105 | 106 | 0.9 | 113 | 112 | 0.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 105 | 106 | 0.9 | 107 | 106 | 0.9 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 96 | 96 | 0.0 | 93 | 107 | 14.0 | 70 - 130 | 30 | |
| Acetone | ND | 84 | 77 | 8.7 | 52 | 49 | 5.9 | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 102 | 90 | 12.5 | 97 | 111 | 13.5 | 70 - 130 | 30 | |
| Benzene | ND | 107 | 105 | 1.9 | 108 | 112 | 3.6 | 70 - 130 | 30 | |
| Bromobenzene | ND | 104 | 106 | 1.9 | 103 | 104 | 1.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 104 | 103 | 1.0 | 100 | 105 | 4.9 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 108 | 106 | 1.9 | 105 | 111 | 5.6 | 70 - 130 | 30 | |
| Bromoform | ND | 106 | 109 | 2.8 | 98 | 106 | 7.8 | 70 - 130 | 30 | |
| Bromomethane | ND | 122 | 106 | 14.0 | 111 | 111 | 0.0 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 102 | 97 | 5.0 | 106 | 109 | 2.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 112 | 111 | 0.9 | 112 | 114 | 1.8 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 107 | 106 | 0.9 | 104 | 104 | 0.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 115 | 110 | 4.4 | 112 | 114 | 1.8 | 70 - 130 | 30 | |
| Chloroform | ND | 107 | 103 | 3.8 | 108 | 113 | 4.5 | 70 - 130 | 30 | |
| Chloromethane | ND | 113 | 105 | 7.3 | 105 | 105 | 0.0 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 105 | 102 | 2.9 | 103 | 110 | 6.6 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 105 | 103 | 1.9 | 101 | 108 | 6.7 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 106 | 108 | 1.9 | 99 | 105 | 5.9 | 70 - 130 | 30 | |
| Dibromomethane | ND | 106 | 104 | 1.9 | 99 | 111 | 11.4 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 126 | 118 | 6.6 | 108 | 106 | 1.9 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 106 | 105 | 0.9 | 111 | 110 | 0.9 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 111 | 108 | 2.7 | 93 | 102 | 9.2 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 108 | 112 | 3.6 | 119 | 116 | 2.6 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 106 | 106 | 0.0 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 88 | 82 | 7.1 | 71 | 73 | 2.8 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 102 | 91 | 11.4 | 90 | 107 | 17.3 | 70 - 130 | 30 | |
| Methylene chloride | ND | 102 | 94 | 8.2 | 97 | 104 | 7.0 | 70 - 130 | 30 | |
| Naphthalene | ND | 118 | 97 | 19.5 | 62 | 88 | 34.7 | 70 - 130 | 30 | m,r |
| n-Butylbenzene | ND | 110 | 109 | 0.9 | 113 | 112 | 0.9 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 111 | 113 | 1.8 | 117 | 114 | 2.6 | 70 - 130 | 30 | |
| o-Xylene | ND | 112 | 109 | 2.7 | 108 | 109 | 0.9 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 109 | 111 | 1.8 | 113 | 112 | 0.9 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 106 | 108 | 1.9 | 117 | 114 | 2.6 | 70 - 130 | 30 | |
| Styrene | ND | 110 | 103 | 6.6 | 104 | 102 | 1.9 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 107 | 110 | 2.8 | 118 | 115 | 2.6 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 109 | 112 | 2.7 | 110 | 104 | 5.6 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 96 | 89 | 7.6 | 94 | 109 | 14.8 | 70 - 130 | 30 | |

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | 107 | 106 | 0.9 | 108 | 111 | 2.7 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 108 | 103 | 4.7 | 109 | 108 | 0.9 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 105 | 102 | 2.9 | 99 | 109 | 9.6 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 105 | 104 | 1.0 | 101 | 113 | 11.2 | 70 - 130 | 30 | |
| Trichloroethene | ND | 112 | 113 | 0.9 | 106 | 109 | 2.8 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 117 | 108 | 8.0 | 112 | 114 | 1.8 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 109 | 104 | 4.7 | 116 | 122 | 5.0 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 111 | 105 | 5.6 | 110 | 111 | 0.9 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 102 | 99 | 100 | 1.0 | 99 | 101 | 2.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 96 | 100 | 99 | 1.0 | 98 | 99 | 1.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 100 | 98 | 99 | 1.0 | 104 | 102 | 1.9 | 70 - 130 | 30 | |
| % Toluene-d8 | 99 | 101 | 100 | 1.0 | 103 | 104 | 1.0 | 70 - 130 | 30 | |

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 221736, QC Sample No: BD37432 (BD37429, BD37432, BD37433, BD37435, BD37436 (56X) )

## Volatiles - Soil

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 107 | 109 | 1.9 | 120 | 105 | 13.3 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 104 | 106 | 1.9 | 118 | 101 | 15.5 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 94 | 97 | 3.1 | 114 | 92 | 21.4 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 101 | 110 | 8.5 | 123 | 99 | 21.6 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 101 | 112 | 10.3 | 127 | 98 | 25.8 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 101 | 103 | 2.0 | 119 | 98 | 19.4 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 104 | 105 | 1.0 | 123 | 105 | 15.8 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 99 | 116 | 15.8 | 116 | 93 | 22.0 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 106 | 86 | 20.8 | 118 | 105 | 11.7 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 101 | 113 | 11.2 | 112 | 91 | 20.7 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 104 | 104 | 0.0 | 113 | 97 | 15.2 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 97 | 108 | 10.7 | 114 | 97 | 16.1 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 97 | 107 | 9.8 | 124 | 98 | 23.4 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 101 | 103 | 2.0 | 114 | 97 | 16.1 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 98 | 106 | 7.8 | 125 | 100 | 22.2 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 102 | 107 | 4.8 | 126 | 104 | 19.1 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 103 | 102 | 1.0 | 115 | 100 | 14.0 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 105 | 106 | 0.9 | 114 | 97 | 16.1 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 100 | 104 | 3.9 | 123 | 100 | 20.6 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 103 | 104 | 1.0 | 113 | 96 | 16.3 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 111 | 113 | 1.8 | 116 | 100 | 14.8 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 100 | 100 | 0.0 | 116 | 98 | 16.8 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 88 | 95 | 7.7 | 110 | 88 | 22.2 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 102 | 100 | 2.0 | 116 | 101 | 13.8 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 100 | 100 | 0.0 | 116 | 98 | 16.8 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 93 | 104 | 11.2 | 122 | 95 | 24.9 | 70 - 130 | 30 | |
| Acetone | ND | 74 | 86 | 15.0 | 97 | 72 | 29.6 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 89 | 108 | 19.3 | 119 | 87 | 31.1 | 70 - 130 | 30 | r |
| Benzene | ND | 103 | 106 | 2.9 | 123 | 105 | 15.8 | 70 - 130 | 30 | |
| Bromobenzene | ND | 101 | 102 | 1.0 | 121 | 103 | 16.1 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 101 | 105 | 3.9 | 121 | 98 | 21.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 105 | 110 | 4.7 | 121 | 102 | 17.0 | 70 - 130 | 30 | |
| Bromoform | ND | 106 | 114 | 7.3 | 114 | 101 | 12.1 | 70 - 130 | 30 | |
| Bromomethane | ND | 111 | 120 | 7.8 | 126 | 104 | 19.1 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 94 | 97 | 3.1 | 117 | 97 | 18.7 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 108 | 110 | 1.8 | 116 | 106 | 9.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | 104 | 105 | 1.0 | 120 | 101 | 17.2 | 70 - 130 | 30 |
| Chloroethane | ND | 109 | 110 | 0.9 | 122 | 103 | 16.9 | 70 - 130 | 30 |
| Chloroform | ND | 102 | 106 | 3.8 | 121 | 99 | 20.0 | 70 - 130 | 30 |
| Chloromethane | ND | 105 | 105 | 0.0 | 122 | 101 | 18.8 | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 101 | 109 | 7.6 | 121 | 97 | 22.0 | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 102 | 109 | 6.6 | 120 | 99 | 19.2 | 70 - 130 | 30 |
| Dibromochloromethane | ND | 105 | 108 | 2.8 | 116 | 102 | 12.8 | 70 - 130 | 30 |
| Dibromomethane | ND | 102 | 110 | 7.5 | 123 | 99 | 21.6 | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 112 | 116 | 3.5 | 127 | 105 | 19.0 | 70 - 130 | 30 |
| Ethylbenzene | ND | 103 | 104 | 1.0 | 119 | 103 | 14.4 | 70 - 130 | 30 |
| Hexachlorobutadiene | ND | 97 | 107 | 9.8 | 123 | 103 | 17.7 | 70 - 130 | 30 |
| Isopropylbenzene | ND | 105 | 101 | 3.9 | 118 | 103 | 13.6 | 70 - 130 | 30 |
| m&p-Xylene | ND | 104 | 105 | 1.0 | 118 | 102 | 14.5 | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 77 | 87 | 12.2 | 111 | 83 | 28.9 | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 87 | 104 | 17.8 | 124 | 92 | 29.6 | 70 - 130 | 30 |
| Methylene chloride | ND | 95 | 101 | 6.1 | 112 | 90 | 21.8 | 70 - 130 | 30 |
| Naphthalene | ND | 90 | 120 | 28.6 | 120 | 90 | 28.6 | 70 - 130 | 30 |
| n-Butylbenzene | ND | 103 | 103 | 0.0 | 109 | 94 | 14.8 | 70 - 130 | 30 |
| n-Propylbenzene | ND | 107 | 105 | 1.9 | 114 | 101 | 12.1 | 70 - 130 | 30 |
| o-Xylene | ND | 107 | 109 | 1.9 | 120 | 103 | 15.2 | 70 - 130 | 30 |
| p-Isopropyltoluene | ND | 105 | 103 | 1.9 | 113 | 99 | 13.2 | 70 - 130 | 30 |
| sec-Butylbenzene | ND | 102 | 100 | 2.0 | 115 | 101 | 13.0 | 70 - 130 | 30 |
| Styrene | ND | 104 | 104 | 0.0 | 118 | 103 | 13.6 | 70 - 130 | 30 |
| tert-Butylbenzene | ND | 105 | 102 | 2.9 | 117 | 104 | 11.8 | 70 - 130 | 30 |
| Tetrachloroethene | ND | 107 | 104 | 2.8 | 123 | 107 | 13.9 | 70 - 130 | 30 |
| Tetrahydrofuran (THF) | ND | 88 | 101 | 13.8 | 117 | 85 | 31.7 | 70 - 130 | 30 r |
| Toluene | ND | 103 | 105 | 1.9 | 122 | 104 | 15.9 | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 103 | 105 | 1.9 | 116 | 98 | 16.8 | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 102 | 113 | 10.2 | 120 | 100 | 18.2 | 70 - 130 | 30 |
| trans-1,4-dichloro-2-butene | ND | 104 | 115 | 10.0 | 109 | 91 | 18.0 | 70 - 130 | 30 |
| Trichloroethene | ND | 108 | 111 | 2.7 | 126 | 108 | 15.4 | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 105 | 110 | 4.7 | 120 | 99 | 19.2 | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 101 | 107 | 5.8 | 122 | 100 | 19.8 | 70 - 130 | 30 |
| Vinyl chloride | ND | 105 | 105 | 0.0 | 120 | 99 | 19.2 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 102 | 98 | 99 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 100 | 100 | 100 | 0.0 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 102 | 98 | 104 | 5.9 | 102 | 98 | 4.0 | 70 - 130 | 30 |
| % Toluene-d8 | 102 | 100 | 101 | 1.0 | 101 | 100 | 1.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 221574, QC Sample No: BD37434 (BD37427, BD37428, BD37429, BD37430, BD37431, BD37432, BD37433, BD37434, BD37435, BD37436, BD37437)

## Pesticides - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4,4' -DDD | ND | 73 | 74 | 1.4 | 76 | 70 | 8.2 | 40 - 140 | 30 |
| 4,4' -DDE | ND | 76 | 78 | 2.6 | 78 | 77 | 1.3 | 40 - 140 | 30 |
| 4,4' -DDT | ND | 75 | 73 | 2.7 | 83 | 79 | 4.9 | 40 - 140 | 30 |
| a-BHC | ND | 81 | 80 | 1.2 | 82 | 84 | 2.4 | 40 - 140 | 30 |
| a-Chlordane | ND | 76 | 77 | 1.3 | 77 | 79 | 2.6 | 40 - 140 | 30 |
| Alachlor | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| Aldrin | ND | 79 | 78 | 1.3 | 75 | 78 | 3.9 | 40 - 140 | 30 |
| b-BHC | ND | 78 | 79 | 1.3 | 80 | 83 | 3.7 | 40 - 140 | 30 |
| Chlordane | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| d-BHC | ND | 72 | 72 | 0.0 | 75 | 78 | 3.9 | 40 - 140 | 30 |
| Dieldrin | ND | 79 | 80 | 1.3 | 81 | 83 | 2.4 | 40 - 140 | 30 |
| Endosulfan I | ND | 76 | 77 | 1.3 | 79 | 80 | 1.3 | 40 - 140 | 30 |
| Endosulfan II | ND | 71 | 73 | 2.8 | 78 | 77 | 1.3 | 40 - 140 | 30 |
| Endosulfan sulfate | ND | 68 | 70 | 2.9 | 73 | 70 | 4.2 | 40 - 140 | 30 |
| Endrin | ND | 80 | 82 | 2.5 | 82 | 76 | 7.6 | 40 - 140 | 30 |
| Endrin aldehyde | ND | 75 | 79 | 5.2 | 88 | 87 | 1.1 | 40 - 140 | 30 |
| Endrin ketone | ND | 72 | 70 | 2.8 | 76 | 75 | 1.3 | 40 - 140 | 30 |
| g-BHC | ND | 78 | 78 | 0.0 | 80 | 82 | 2.5 | 40 - 140 | 30 |
| g-Chlordane | ND | 76 | 77 | 1.3 | 76 | 80 | 5.1 | 40 - 140 | 30 |
| Heptachlor | ND | 81 | 80 | 1.2 | 81 | 84 | 3.6 | 40 - 140 | 30 |
| Heptachlor epoxide | ND | 77 | 78 | 1.3 | 79 | 81 | 2.5 | 40 - 140 | 30 |
| Methoxychlor | ND | 76 | 75 | 1.3 | 89 | 88 | 1.1 | 40 - 140 | 30 |
| Toxaphene | ND | N/A | N/A | NC | N/A | N/A | NC | 40 - 140 | 30 |
| % DCBP | 57 | 60 | 56 | 6.9 | 60 | 67 | 11.0 | 30 - 150 | 30 |
| % TCMX | 78 | 79 | 77 | 2.6 | 70 | 79 | 12.1 | 30 - 150 | 30 |

QA/QC Batch 221578, QC Sample No: BD37434 (BD37427, BD37428, BD37429, BD37430, BD37431, BD37432, BD37433, BD37434, BD37435, BD37436, BD37437)

## Polychlorinated Biphenyls - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | 88 | 85 | 3.5 | 87 | 86 | 1.2 | 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 |
| PCB-1260 | ND | 88 | 85 | 3.5 | 80 | 79 | 1.3 | 40 - 140 | 30 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 30 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 30 |
| % DCBP (Surrogate Rec) | 33 | 74 | 72 | 2.7 | 66 | 72 | 8.7 | 30 - 150 | 30 |
| % TCMX (Surrogate Rec) | 48 | 86 | 84 | 2.4 | 78 | 82 | 5.0 | 30 - 150 | 30 |

QA/QC Batch 221662, QC Sample No: BD37552 (BD37430, BD37434, BD37437)

## Volatiles - Soil

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 105 | 113 | 7.3 | 100 | 103 | 3.0 | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 110 | 109 | 0.9 | 106 | 102 | 3.8 | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 91 | 96 | 5.3 | 94 | 97 | 3.1 | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 104 | 104 | 0.0 | 99 | 97 | 2.0 | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 101 | 91 | 10.4 | 98 | 86 | 13.0 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 106 | 101 | 4.8 | 101 | 94 | 7.2 | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 102 | 100 | 2.0 | 99 | 94 | 5.2 | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 110 | 108 | 1.8 | 102 | 95 | 7.1 | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 96 | 93 | 3.2 | 95 | 96 | 1.0 | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 110 | 106 | 3.7 | 102 | 97 | 5.0 | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 102 | 104 | 1.9 | 88 | 81 | 8.3 | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 104 | 103 | 1.0 | 92 | 93 | 1.1 | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 103 | 107 | 3.8 | 101 | 98 | 3.0 | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 104 | 104 | 0.0 | 100 | 96 | 4.1 | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 107 | 112 | 4.6 | 106 | 104 | 1.9 | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 100 | 99 | 1.0 | 96 | 94 | 2.1 | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 100 | 102 | 2.0 | 97 | 97 | 0.0 | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 104 | 105 | 1.0 | 100 | 95 | 5.1 | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 96 | 103 | 7.0 | 92 | 95 | 3.2 | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 104 | 104 | 0.0 | 99 | 96 | 3.1 | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2,2-Dichloropropane | ND | 111 | 108 | 2.7 | 101 | 97 | 4.0 | 70 - 130 | 30 | |
| 2-Chlorotoluene | ND | 98 | 98 | 0.0 | 97 | 95 | 2.1 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 97 | 103 | 6.0 | 59 | 61 | 3.3 | 70 - 130 | 30 | m |
| 2-Isopropyltoluene | ND | 98 | 97 | 1.0 | 99 | 95 | 4.1 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 98 | 99 | 1.0 | 96 | 94 | 2.1 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 95 | 100 | 5.1 | 89 | 90 | 1.1 | 70 - 130 | 30 | |
| Acetone | ND | 88 | 92 | 4.4 | <40 | <40 | NC | 70 - 130 | 30 | m |
| Acrylonitrile | ND | 99 | 86 | 14.1 | 91 | 79 | 14.1 | 70 - 130 | 30 | |
| Benzene | ND | 98 | 99 | 1.0 | 96 | 93 | 3.2 | 70 - 130 | 30 | |
| Bromobenzene | ND | 100 | 106 | 5.8 | 99 | 99 | 0.0 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 103 | 105 | 1.9 | 97 | 97 | 0.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 110 | 112 | 1.8 | 106 | 102 | 3.8 | 70 - 130 | 30 | |
| Bromoform | ND | 114 | 122 | 6.8 | 99 | 104 | 4.9 | 70 - 130 | 30 | |
| Bromomethane | ND | 102 | 91 | 11.4 | 89 | 81 | 9.4 | 70 - 130 | 30 | |
| Carbon Disulfide | ND | 103 | 98 | 5.0 | 99 | 92 | 7.3 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 114 | 112 | 1.8 | 108 | 104 | 3.8 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 101 | 104 | 2.9 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| Chloroethane | ND | 110 | 104 | 5.6 | 101 | 93 | 8.2 | 70 - 130 | 30 | |
| Chloroform | ND | 104 | 107 | 2.8 | 102 | 101 | 1.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 97 | 95 | 2.1 | 82 | 77 | 6.3 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 104 | 106 | 1.9 | 95 | 93 | 2.1 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 100 | 102 | 2.0 | 96 | 94 | 2.1 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 108 | 117 | 8.0 | 99 | 104 | 4.9 | 70 - 130 | 30 | |
| Dibromomethane | ND | 105 | 106 | 0.9 | 100 | 95 | 5.1 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 115 | 109 | 5.4 | 84 | 79 | 6.1 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 99 | 100 | 1.0 | 98 | 94 | 4.2 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 105 | 101 | 3.9 | 110 | 101 | 8.5 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 99 | 100 | 1.0 | 97 | 94 | 3.1 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 101 | 99 | 2.0 | 93 | 86 | 7.8 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 83 | 90 | 8.1 | 51 | 53 | 3.8 | 70 - 130 | 30 | m |
| Methyl t-butyl ether (MTBE) | ND | 95 | 99 | 4.1 | 93 | 94 | 1.1 | 70 - 130 | 30 | |
| Methylene chloride | ND | 98 | 97 | 1.0 | 95 | 92 | 3.2 | 70 - 130 | 30 | |
| Naphthalene | ND | 106 | 105 | 0.9 | 86 | 82 | 4.8 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 99 | 100 | 1.0 | 98 | 95 | 3.1 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 103 | 104 | 1.0 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| o-Xylene | ND | 103 | 106 | 2.9 | 95 | 93 | 2.1 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 101 | 101 | 0.0 | 98 | 95 | 3.1 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 97 | 96 | 1.0 | 98 | 94 | 4.2 | 70 - 130 | 30 | |
| Styrene | ND | 102 | 102 | 0.0 | 96 | 92 | 4.3 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 102 | 101 | 1.0 | 100 | 96 | 4.1 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 105 | 104 | 1.0 | 100 | 99 | 1.0 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 97 | 99 | 2.0 | 90 | 92 | 2.2 | 70 - 130 | 30 | |
| Toluene | ND | 103 | 99 | 4.0 | 99 | 93 | 6.3 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 108 | 105 | 2.8 | 101 | 100 | 1.0 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 106 | 108 | 1.9 | 101 | 99 | 2.0 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 91 | 105 | 14.3 | 81 | 94 | 14.9 | 70 - 130 | 30 | |
| Trichloroethene | ND | 110 | 107 | 2.8 | 100 | 93 | 7.3 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 122 | 114 | 6.8 | 106 | 100 | 5.8 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 110 | 106 | 3.7 | 107 | 103 | 3.8 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 106 | 100 | 5.8 | 92 | 84 | 9.1 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 97 | 102 | 100 | 2.0 | 102 | 101 | 1.0 | 70 - 130 | 30 | |
| % Bromofluorobenzene | 94 | 99 | 102 | 3.0 | 98 | 100 | 2.0 | 70 - 130 | 30 | |
| % Dibromofluoromethane | 105 | 104 | 103 | 1.0 | 104 | 100 | 3.9 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD37427

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| % Toluene-d8 | 95 | 100 | 98 | 2.0 | 100 | 98 | 2.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of 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
February 28, 2013

Thursday, February 28, 2013

Requested Criteria: None

State: NY

# Sample Criteria Exceedences Report

## GBD37427 - EBC

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

*** No Data to Display ***

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

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

# NY Temperature Narration

**February 28, 2013**

**SDG I.D.: GBD37427**

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

# PHOENIX Environmental Laboratories, Inc.

## NY/NJ CHAIN OF CUSTODY RECORD

Temp 4 pm CTRP Pg of

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: csosik@ebcinny.com

Customer: EBC
Address: 1808 Middle Country Rd Ridge NY 11961

Project: 212-218 N 9th St, Brooklyn NY
Report to: EBC
Invoice to: EBC

Project P.O:
Phone #: 631-504-6000
Fax #:

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 2/18/13

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

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs 8260 | SVOCs 8270 | Pesticides 8081 | TAL Metals 6010 | PCBs 8082 | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( 8 ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [ ] As is [ ] H2SO4 | PL As is [ ] 250ml [ ] 250ml [ ] 500ml | PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37427 | B1 0-2' | S | 2/18/13 | | X | X | X | X | X | | 2 | 1 | | | | | | | |
| 37428 | B2 0-2' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37429 | B3 0-2' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37430 | B3 4-6' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37431 | B4 0-2' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37432 | B4 4-6' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37433 | B5 0-2' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37434 | B5 4-6' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37435 | B6 0-2' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37436 | B6 4-6' | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |
| 37437 | Duplicate | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | ↓ | | ↓ | ↓ | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 8:52 | 2/19/13 |
| | | 2/19/13 | 1:53 |

**Comments, Special Requirements or Regulations:**
Rcvd 1 extra H.L - no soil in vocs

**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.

**Tuesday, March 05, 2013**

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

**Project ID: 212-218 N 9TH ST., BROOKLYN**
**Sample ID#s: BD39250 - BD39252**

**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 05, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | KD | 02/19/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/22/13 | 16:19 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD39250
Phoenix ID: BD39250

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Aluminum | 0.428 | 0.010 | mg/L | 02/25/13 | EK | SW6010 | |
| Arsenic | < 0.004 | 0.004 | mg/L | 02/25/13 | EK | SW6010 | |
| Barium | 0.187 | 0.002 | mg/L | 02/25/13 | EK | SW6010 | |
| Beryllium | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Calcium | 150 | 0.010 | mg/L | 02/25/13 | EK | SW6010 | |
| Cadmium | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Cobalt | 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 | |
| Chromium | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Copper | < 0.005 | 0.005 | mg/L | 02/25/13 | EK | SW6010 | |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Aluminum (Dissolved) | 0.04 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | |
| Arsenic (Dissolved) | < 0.004 | 0.004 | mg/L | 02/23/13 | LK | SW6010 | |
| Barium (Dissolved) | 0.187 | 0.002 | mg/L | 02/23/13 | LK | SW6010 | |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Calcium (Dissolved) | 152 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | B |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Cobalt (Dissolved) | 0.003 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 02/23/13 | LK | SW6010 | |
| Iron (Dissolved) | 0.076 | 0.011 | mg/L | 02/23/13 | LK | SW6010 | |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 02/25/13 | RS | SW7470 | |
| Potassium (Dissolved) | 14.9 | 0.1 | mg/L | 02/23/13 | LK | SW6010 | |
| Magnesium (Dissolved) | 16.1 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | |
| Manganese (Dissolved) | 1.01 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Sodium (Dissolved) | 38.2 | 0.11 | mg/L | 02/23/13 | LK | SW6010 | |
| Nickel (Dissolved) | 0.004 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

Phoenix I.D.: BD39250

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 02/23/13 | LK | SW6010 |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 02/23/13 | LK | SW6010 |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 02/27/13 | RS | SW7010 |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 |
| Zinc (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 |
| Iron | 1.28 | 0.010 | mg/L | 02/25/13 | EK | SW6010 |
| Mercury | < 0.0002 | 0.0002 | mg/L | 02/25/13 | RS | SW7470 |
| Potassium | 14.0 | 0.1 | mg/L | 02/25/13 | EK | SW6010 |
| Magnesium | 15.9 | 0.01 | mg/L | 02/25/13 | EK | SW6010 |
| Manganese | 0.993 | 0.001 | mg/L | 02/25/13 | EK | SW6010 |
| Sodium | 35.3 | 0.1 | mg/L | 02/25/13 | EK | SW6010 |
| Nickel | 0.004 | 0.001 | mg/L | 02/25/13 | EK | SW6010 |
| Lead | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Antimony | < 0.005 | 0.005 | mg/L | 02/25/13 | EK | SW6010 |
| Selenium | < 0.010 | 0.010 | mg/L | 02/25/13 | EK | SW6010 |
| Thallium | < 0.002 | 0.002 | mg/L | 02/27/13 | RS | SW7010 |
| Vanadium | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Zinc | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Filtration | Completed | | | 02/22/13 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | 02/25/13 | X/X | SW7470 |
| Mercury Digestion | Completed | | | 02/25/13 | X/X | SW7470 |
| PCB Extraction | Completed | | | 02/22/13 | LT | SW3510C |
| Extraction for Pest (2 Liter) | Completed | | | 02/22/13 | LT | SW3510 |
| Semi-Volatile Extraction | Completed | | | 02/22/13 | I/XDK | SW3520 |
| Dissolved Metals Preparation | Completed | | | 02/22/13 | AG | SW846-3005 |
| Total Metals Digestion | Completed | | | 02/22/13 | AG | |

## Polychlorinated Biphenyls

| | | | | | | |
|---|---|---|---|---|---|---|
| PCB-1016 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1221 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1232 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1242 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1248 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1254 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1260 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1262 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1268 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| **QA/QC Surrogates** | | | | | | |
| % DCBP | 78 | | % | 02/25/13 | AW | 30 - 150 % |
| % TCMX | 55 | | % | 02/25/13 | AW | 30 - 150 % |

## Pesticides

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4,4' -DDD | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| a-BHC | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 | |
| Alachlor | ND | 0.075 | ug/L | 02/25/13 | MH | SW8081 | 1 |
| Aldrin | ND | 0.002 | ug/L | 02/25/13 | MH | SW8081 | |
| b-BHC | ND | 0.005 | ug/L | 02/25/13 | MH | SW8081 | |
| Chlordane | ND | 0.30 | ug/L | 02/25/13 | MH | SW8081 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

Phoenix I.D.: BD39250

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| d-BHC | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Dieldrin | ND | 0.002 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan I | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan II | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan Sulfate | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin Aldehyde | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin ketone | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| g-BHC (Lindane) | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Heptachlor | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Heptachlor epoxide | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Methoxychlor | ND | 0.10 | ug/L | 02/25/13 | MH | SW8081 |
| Toxaphene | ND | 1.0 | ug/L | 02/25/13 | MH | SW8081 |
| **QA/QC Surrogates** | | | | | | |
| %DCBP (Surrogate Rec) | 70 | | % | 02/25/13 | MH | 30 - 150 % |
| %TCMX (Surrogate Rec) | 57 | | % | 02/25/13 | MH | 30 - 150 % |

## Volatiles

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Acetone | ND | 25 | ug/L | 02/22/13 | H/T | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromochloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

Phoenix I.D.: BD39250

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Bromoform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 02/22/13 | H/T | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 2.5 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Bromofluorobenzene | 95 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Dibromofluoromethane | 97 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 02/22/13 | H/T | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,2-Diphenylhydrazine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

Phoenix I.D.: BD39250

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Acetophenone | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Diethyl phthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-1

Phoenix I.D.: BD39250

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Pyrene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 116 | | % | 02/26/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 83 | | % | 02/26/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 82 | | % | 02/26/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 119 | | % | 02/26/13 | DD | 30 - 130 % |
| % Phenol-d5 | 78 | | % | 02/26/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 99 | | % | 02/26/13 | DD | 30 - 130 % |
| **Semivolatiles** | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benz(a)anthracene | 0.16 | 0.040 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(a)pyrene | 0.15 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | 0.17 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | 0.08 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Chrysene | 0.15 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | 0.09 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Phenanthrene | 0.23 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 116 | | % | 02/25/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 83 | | % | 02/25/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 82 | | % | 02/25/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 119 | | % | 02/25/13 | DD | 30 - 130 % |
| % Phenol-d5 | 78 | | % | 02/25/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 99 | | % | 02/25/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Phoenix I.D.: BD39250

Client ID: MW-1

| 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.

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

**Phyllis Shiller, Laboratory Director**

**March 05, 2013**

**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 05, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | KD | 02/19/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/22/13 | 16:19 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD39250
Phoenix ID: BD39251

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: MW-3

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Aluminum | 0.717 | 0.010 | mg/L | 02/25/13 | EK | SW6010 | |
| Arsenic | < 0.004 | 0.004 | mg/L | 02/25/13 | EK | SW6010 | |
| Barium | 0.079 | 0.002 | mg/L | 02/25/13 | EK | SW6010 | |
| Beryllium | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Calcium | 109 | 0.010 | mg/L | 02/25/13 | EK | SW6010 | |
| Cadmium | < 0.001 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Cobalt | 0.005 | 0.002 | mg/L | 02/25/13 | EK | SW6010 | |
| Chromium | 0.002 | 0.001 | mg/L | 02/25/13 | EK | SW6010 | |
| Copper | < 0.005 | 0.005 | mg/L | 02/25/13 | EK | SW6010 | |
| Silver (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Aluminum (Dissolved) | 0.06 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | |
| Arsenic (Dissolved) | 0.005 | 0.004 | mg/L | 02/23/13 | LK | SW6010 | |
| Barium (Dissolved) | 0.076 | 0.002 | mg/L | 02/23/13 | LK | SW6010 | |
| Beryllium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Calcium (Dissolved) | 112 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | B |
| Cadmium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Cobalt (Dissolved) | 0.006 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Chromium (Dissolved) | < 0.001 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Copper (Dissolved) | < 0.005 | 0.005 | mg/L | 02/23/13 | LK | SW6010 | |
| Iron (Dissolved) | 0.122 | 0.011 | mg/L | 02/23/13 | LK | SW6010 | |
| Mercury (Dissolved) | < 0.0002 | 0.0002 | mg/L | 02/25/13 | RS | SW7470 | |
| Potassium (Dissolved) | 33.9 | 0.1 | mg/L | 02/23/13 | LK | SW6010 | |
| Magnesium (Dissolved) | 35.5 | 0.01 | mg/L | 02/23/13 | LK | SW6010 | |
| Manganese (Dissolved) | 1.37 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Sodium (Dissolved) | 85.3 | 1.1 | mg/L | 02/25/13 | LK | SW6010 | |
| Nickel (Dissolved) | 0.008 | 0.001 | mg/L | 02/23/13 | LK | SW6010 | |
| Lead (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Antimony (Dissolved) | < 0.005 | 0.005 | mg/L | 02/23/13 | LK | SW6010 |
| Selenium (Dissolved) | < 0.011 | 0.011 | mg/L | 02/23/13 | LK | SW6010 |
| Thallium (Dissolved) | < 0.002 | 0.002 | mg/L | 02/27/13 | RS | SW7010 |
| Vanadium (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 |
| Zinc (Dissolved) | < 0.002 | 0.002 | mg/L | 02/23/13 | LK | SW6010 |
| Iron | 2.42 | 0.010 | mg/L | 02/25/13 | EK | SW6010 |
| Mercury | < 0.0002 | 0.0002 | mg/L | 02/25/13 | RS | SW7470 |
| Potassium | 33.1 | 0.1 | mg/L | 02/25/13 | EK | SW6010 |
| Magnesium | 34.8 | 0.01 | mg/L | 02/25/13 | EK | SW6010 |
| Manganese | 1.33 | 0.001 | mg/L | 02/25/13 | EK | SW6010 |
| Sodium | 81.1 | 1.0 | mg/L | 02/25/13 | LK | SW6010 |
| Nickel | 0.008 | 0.001 | mg/L | 02/25/13 | EK | SW6010 |
| Lead | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Antimony | < 0.005 | 0.005 | mg/L | 02/25/13 | EK | SW6010 |
| Selenium | < 0.010 | 0.010 | mg/L | 02/25/13 | EK | SW6010 |
| Thallium | < 0.002 | 0.002 | mg/L | 02/27/13 | RS | SW7010 |
| Vanadium | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Zinc | < 0.002 | 0.002 | mg/L | 02/25/13 | EK | SW6010 |
| Filtration | Completed | | | 02/22/13 | AG | 0.45um Filter |
| Dissolved Mercury Digestion | Completed | | | 02/25/13 | X/X | SW7470 |
| Mercury Digestion | Completed | | | 02/25/13 | X/X | SW7470 |
| PCB Extraction | Completed | | | 02/22/13 | LT | SW3510C |
| Extraction for Pest (2 Liter) | Completed | | | 02/22/13 | LT | SW3510 |
| Semi-Volatile Extraction | Completed | | | 02/22/13 | I/XDK | SW3520 |
| Dissolved Metals Preparation | Completed | | | 02/22/13 | AG | SW846-3005 |
| Total Metals Digestion | Completed | | | 02/22/13 | AG | |

## Polychlorinated Biphenyls

| | | | | | | |
|---|---|---|---|---|---|---|
| PCB-1016 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1221 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1232 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1242 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1248 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1254 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1260 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1262 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| PCB-1268 | ND | 0.10 | ug/L | 02/25/13 | AW | 8082 |
| **QA/QC Surrogates** | | | | | | |
| % DCBP | 88 | | % | 02/25/13 | AW | 30 - 150 % |
| % TCMX | 63 | | % | 02/25/13 | AW | 30 - 150 % |

## Pesticides

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4,4' -DDD | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| 4,4' -DDE | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| 4,4' -DDT | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 | |
| a-BHC | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 | |
| Alachlor | ND | 0.075 | ug/L | 02/25/13 | MH | SW8081 | 1 |
| Aldrin | ND | 0.002 | ug/L | 02/25/13 | MH | SW8081 | |
| b-BHC | ND | 0.005 | ug/L | 02/25/13 | MH | SW8081 | |
| Chlordane | ND | 0.30 | ug/L | 02/25/13 | MH | SW8081 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| d-BHC | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Dieldrin | ND | 0.002 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan I | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan II | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endosulfan Sulfate | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin Aldehyde | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| Endrin ketone | ND | 0.050 | ug/L | 02/25/13 | MH | SW8081 |
| g-BHC (Lindane) | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Heptachlor | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Heptachlor epoxide | ND | 0.025 | ug/L | 02/25/13 | MH | SW8081 |
| Methoxychlor | ND | 0.10 | ug/L | 02/25/13 | MH | SW8081 |
| Toxaphene | ND | 1.0 | ug/L | 02/25/13 | MH | SW8081 |
| **QA/QC Surrogates** | | | | | | |
| %DCBP (Surrogate Rec) | 72 | | % | 02/25/13 | MH | 30 - 150 % |
| %TCMX (Surrogate Rec) | 49 | | % | 02/25/13 | MH | 30 - 150 % |

## Volatiles

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Acetone | ND | 25 | ug/L | 02/22/13 | H/T | SW8260 | |
| Acrylonitrile | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromochloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Bromoform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 02/22/13 | H/T | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 2.5 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 100 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Bromofluorobenzene | 96 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Dibromofluoromethane | 96 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Toluene-d8 | 99 | | % | 02/22/13 | H/T | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,2-Diphenylhydrazine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Methylnaphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Methylphenol (o-cresol) | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 02/26/13 | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Acetophenone | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |
| Anthracene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 02/26/13 | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Diethyl phthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Fluoranthene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Fluorene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Naphthalene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| Phenol | ND | 10 | ug/L | 02/26/13 | DD | SW8270 |

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|---|---|---|---|---|---|---|
| Pyrene | ND | 5.0 | ug/L | 02/26/13 | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 118 | | % | 02/26/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 76 | | % | 02/26/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 79 | | % | 02/26/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 123 | | % | 02/26/13 | DD | 30 - 130 % |
| % Phenol-d5 | 81 | | % | 02/26/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 85 | | % | 02/26/13 | DD | 30 - 130 % |
| **Semivolatiles** | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Acenaphthene | ND | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Acenaphthylene | ND | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benz(a)anthracene | 0.14 | 0.040 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(a)pyrene | 0.12 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | 0.13 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | 0.06 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | 6.6 | 1.6 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Chrysene | 0.13 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | ND | 0.010 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | 0.07 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Phenanthrene | 0.17 | 0.050 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 02/25/13 | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 118 | | % | 02/25/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 76 | | % | 02/25/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 79 | | % | 02/25/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 123 | | % | 02/25/13 | DD | 30 - 130 % |
| % Phenol-d5 | 81 | | % | 02/25/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 85 | | % | 02/25/13 | DD | 30 - 130 % |

Project ID: 212-218 N 9TH ST., BROOKLYN

Phoenix I.D.: BD39251

Client ID: MW-3

| 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.

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

**Phyllis Shiller, Laboratory Director**

**March 05, 2013**

**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 05, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | KD | 02/19/13 | 0:00 |
| Location Code: | EBC | Received by: | LB | 02/22/13 | 16:19 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD39250
Phoenix ID: BD39252

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: TRIP BLANK

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Acetone | ND | 25 | ug/L | 02/22/13 | H/T | SW8260 | |

Project ID: 212-218 N 9TH ST., BROOKLYN
Client ID: TRIP BLANK

Phoenix I.D.: BD39252

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromochloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 02/22/13 | H/T | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 2.5 | ug/L | 02/22/13 | H/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 02/22/13 | H/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 02/22/13 | H/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 101 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Bromofluorobenzene | 95 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Dibromofluoromethane | 94 | | % | 02/22/13 | H/T | 70 - 130 % | |
| % Toluene-d8 | 100 | | % | 02/22/13 | H/T | 70 - 130 % | |

Project ID: 212-218 N 9TH ST., BROOKLYN

Phoenix I.D.: BD39252

Client ID: TRIP BLANK

| 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.

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 05, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

March 05, 2013

## QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 221808, QC Sample No: BD38317 (BD39250, BD39251) | | | | | | | | | | | | | |
| Thallium (Dissolved) | | <0.002 | <0.005 | NC | 100 | 103 | 3.0 | 105 | | | 75 - 125 | 20 | |
| QA/QC Batch 221823, QC Sample No: BD38475 (BD39250, BD39251) | | | | | | | | | | | | | |
| **ICP Metals - Aqueous** | | | | | | | | | | | | | |
| Aluminum | BRL | 0.597 | 0.714 | 17.8 | 102 | 102 | 0.0 | >130 | 129 | NC | 75 - 125 | 20 | m |
| Antimony | BRL | <0.005 | <0.005 | NC | 106 | 103 | 2.9 | 106 | 105 | 0.9 | 75 - 125 | 20 | |
| Arsenic | BRL | <0.004 | <0.004 | NC | 103 | 98.7 | 4.3 | 104 | 103 | 1.0 | 75 - 125 | 20 | |
| Barium | BRL | 0.477 | 0.481 | 0.80 | 101 | 100 | 1.0 | 96.5 | 95.2 | 1.4 | 75 - 125 | 20 | |
| Beryllium | BRL | <0.001 | <0.001 | NC | 101 | 100 | 1.0 | 99.7 | 99.0 | 0.7 | 75 - 125 | 20 | |
| Cadmium | BRL | <0.001 | <0.001 | NC | 103 | 101 | 2.0 | 94.6 | 93.5 | 1.2 | 75 - 125 | 20 | |
| Calcium | BRL | 290 | 289 | 0.30 | 104 | 101 | 2.9 | NC | NC | NC | 75 - 125 | 20 | |
| Chromium | BRL | 0.003 | 0.003 | NC | 102 | 98.9 | 3.1 | 96.8 | 95.8 | 1.0 | 75 - 125 | 20 | |
| Cobalt | BRL | <0.002 | <0.002 | NC | 101 | 99.2 | 1.8 | 97.7 | 97.0 | 0.7 | 75 - 125 | 20 | |
| Copper | BRL | <0.005 | <0.005 | NC | 103 | 101 | 2.0 | 101 | 101 | 0.0 | 75 - 125 | 20 | |
| Iron | BRL | 0.820 | 0.990 | 18.8 | 101 | 99.7 | 1.3 | 111 | 102 | 8.5 | 75 - 125 | 20 | |
| Lead | BRL | <0.002 | <0.002 | NC | 103 | 100 | 3.0 | 95.2 | 94.6 | 0.6 | 75 - 125 | 20 | |
| Magnesium | BRL | 60.6 | 60.4 | 0.30 | 104 | 102 | 1.9 | NC | NC | NC | 75 - 125 | 20 | |
| Manganese | BRL | 0.112 | 0.113 | 0.90 | 103 | 101 | 2.0 | 98.4 | 97.1 | 1.3 | 75 - 125 | 20 | |
| Nickel | BRL | 0.006 | 0.006 | 0 | 106 | 103 | 2.9 | 95.7 | 94.8 | 0.9 | 75 - 125 | 20 | |
| Potassium | BRL | 1.8 | 1.8 | 0 | 92.3 | 94.9 | 2.8 | 122 | 122 | 0.0 | 75 - 125 | 20 | |
| Selenium | BRL | <0.010 | <0.010 | NC | 100 | 98.5 | 1.5 | 101 | 100 | 1.0 | 75 - 125 | 20 | |
| Silver | BRL | <0.001 | <0.001 | NC | 99.6 | 97.0 | 2.6 | 102 | 101 | 1.0 | 75 - 125 | 20 | |
| Sodium | BRL | 279 | 279 | 0 | 99.6 | 102 | 2.4 | NC | NC | NC | 75 - 125 | 20 | |
| Vanadium | BRL | <0.002 | <0.002 | NC | 100 | 98.0 | 2.0 | 99.5 | 99.1 | 0.4 | 75 - 125 | 20 | |
| Zinc | BRL | 0.004 | 0.004 | NC | 103 | 101 | 2.0 | 101 | 99.7 | 1.3 | 75 - 125 | 20 | |
| QA/QC Batch 221824, QC Sample No: BD38475 (BD39250, BD39251) | | | | | | | | | | | | | |
| Thallium - Water | BRL | <0.002 | <0.002 | NC | 106 | 107 | 0.9 | 84.6 | 87.0 | 2.8 | | | |
| QA/QC Batch 221951, QC Sample No: BD38665 (BD39250, BD39251) | | | | | | | | | | | | | |
| Mercury - Water | BRL | <0.00015 | <0.0002 | NC | 106 | 105 | 0.9 | 102 | 105 | 2.9 | 70 - 130 | 20 | |
| Comment: | | | | | | | | | | | | | |
| Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. | | | | | | | | | | | | | |
| QA/QC Batch 221915, QC Sample No: BD39016 (BD39250, BD39251) | | | | | | | | | | | | | |
| **ICP Metals - Dissolved** | | | | | | | | | | | | | |
| Aluminum | BRL | 0.20 | 0.15 | 28.6 | 94.2 | 97.9 | 3.9 | 87.3 | 88.8 | 1.7 | 75 - 125 | 20 | r |
| Antimony | BRL | <0.005 | <0.005 | NC | 98.1 | 102 | 3.9 | 103 | 99.8 | 3.2 | 75 - 125 | 20 | |
| Arsenic | BRL | <0.004 | <0.004 | NC | 94.8 | 97.0 | 2.3 | 99.1 | 98.5 | 0.6 | 75 - 125 | 20 | |
| Barium | BRL | 0.106 | 0.110 | 3.70 | 96.5 | 99.3 | 2.9 | 99.3 | 96.7 | 2.7 | 75 - 125 | 20 | |
| Beryllium | BRL | <0.001 | <0.001 | NC | 92.4 | 95.4 | 3.2 | 95.4 | 93.7 | 1.8 | 75 - 125 | 20 | |
| Cadmium | BRL | <0.001 | <0.001 | NC | 95.1 | 97.5 | 2.5 | 95.8 | 93.6 | 2.3 | 75 - 125 | 20 | |
| Calcium | 0.01 | 83.0 | 84.9 | 2.30 | 93.7 | 96.7 | 3.2 | NC | NC | NC | 75 - 125 | 20 | |
| Chromium | BRL | <0.001 | <0.001 | NC | 93.7 | 97.1 | 3.6 | 96.5 | 94.5 | 2.1 | 75 - 125 | 20 | |
| Cobalt | BRL | <0.001 | <0.001 | NC | 96.9 | 100 | 3.1 | 98.4 | 96.4 | 2.1 | 75 - 125 | 20 | |

# QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Copper | BRL | <0.005 | <0.005 | NC | 93.7 | 97.1 | 3.6 | 99.0 | 95.2 | 3.9 | 75 - 125 | 20 |
| Iron | BRL | 0.160 | 0.166 | 3.70 | 96.7 | 99.8 | 3.2 | 99.6 | 97.2 | 2.4 | 75 - 125 | 20 |
| Lead | BRL | <0.002 | <0.002 | NC | 94.8 | 98.4 | 3.7 | 96.8 | 94.9 | 2.0 | 75 - 125 | 20 |
| Magnesium | BRL | 8.57 | 8.77 | 2.30 | 96.0 | 99.1 | 3.2 | NC | NC | NC | 75 - 125 | 20 |
| Manganese | BRL | 0.500 | 0.513 | 2.60 | 95.3 | 98.0 | 2.8 | 97.7 | 94.7 | 3.1 | 75 - 125 | 20 |
| Nickel | BRL | <0.001 | <0.001 | NC | 96.5 | 100 | 3.6 | 97.5 | 95.7 | 1.9 | 75 - 125 | 20 |
| Potassium | BRL | 7.5 | 7.6 | 1.30 | 88.4 | 90.6 | 2.5 | 89.7 | 85.9 | 4.3 | 75 - 125 | 20 |
| Selenium | BRL | <0.011 | <0.011 | NC | 89.8 | 92.3 | 2.7 | 95.0 | 94.0 | 1.1 | 75 - 125 | 20 |
| Silver | BRL | <0.001 | <0.001 | NC | 89.4 | 92.6 | 3.5 | 81.3 | 79.9 | 1.7 | 75 - 125 | 20 |
| Sodium | BRL | 33.3 | 33.5 | 0.60 | 92.8 | 95.4 | 2.8 | NC | NC | NC | 75 - 125 | 20 |
| Vanadium | BRL | <0.002 | <0.002 | NC | 92.4 | 95.8 | 3.6 | 96.2 | 93.8 | 2.5 | 75 - 125 | 20 |
| Zinc | BRL | <0.002 | <0.002 | NC | 94.6 | 98.0 | 3.5 | 98.9 | 97.0 | 1.9 | 75 - 125 | 20 |

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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

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# QA/QC Report

March 05, 2013

## QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 221687, QC Sample No: BD37280 (BD39250, BD39251) | | | | | | | | | |
| **Pesticides - Ground Water** | | | | | | | | | |
| 4,4' -DDD | ND | 74 | 77 | 4.0 | | | | 40 - 140 | 20 |
| 4,4' -DDE | ND | 85 | 86 | 1.2 | | | | 40 - 140 | 20 |
| 4,4' -DDT | ND | 78 | 86 | 9.8 | | | | 40 - 140 | 20 |
| a-BHC | ND | 87 | 88 | 1.1 | | | | 40 - 140 | 20 |
| a-Chlordane | ND | 93 | 94 | 1.1 | | | | 40 - 140 | 20 |
| Alachlor | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| Aldrin | ND | 87 | 88 | 1.1 | | | | 40 - 140 | 20 |
| b-BHC | ND | 86 | 86 | 0.0 | | | | 40 - 140 | 20 |
| Chlordane | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| d-BHC | ND | 84 | 84 | 0.0 | | | | 40 - 140 | 20 |
| Dieldrin | ND | 92 | 94 | 2.2 | | | | 40 - 140 | 20 |
| Endosulfan I | ND | 86 | 93 | 7.8 | | | | 40 - 140 | 20 |
| Endosulfan II | ND | 94 | 96 | 2.1 | | | | 40 - 140 | 20 |
| Endosulfan sulfate | ND | 90 | 94 | 4.3 | | | | 40 - 140 | 20 |
| Endrin | ND | 98 | 103 | 5.0 | | | | 40 - 140 | 20 |
| Endrin aldehyde | ND | 89 | 90 | 1.1 | | | | 40 - 140 | 20 |
| Endrin ketone | ND | 90 | 93 | 3.3 | | | | 40 - 140 | 20 |
| g-BHC | ND | 86 | 88 | 2.3 | | | | 40 - 140 | 20 |
| g-Chlordane | ND | 90 | 92 | 2.2 | | | | 40 - 140 | 20 |
| Heptachlor | ND | 87 | 84 | 3.5 | | | | 40 - 140 | 20 |
| Heptachlor epoxide | ND | 87 | 91 | 4.5 | | | | 40 - 140 | 20 |
| Methoxychlor | ND | 83 | 88 | 5.8 | | | | 40 - 140 | 20 |
| Toxaphene | ND | N/A | N/A | NC | | | | 40 - 140 | 20 |
| % DCBP | 72 | 73 | 78 | 6.6 | | | | 30 - 150 | 20 |
| % TCMX | 76 | 75 | 75 | 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 221811, QC Sample No: BD38135 (BD39250, BD39251) | | | | | | | | | |
| **Polychlorinated Biphenyls - Ground Water** | | | | | | | | | |
| PCB-1016 | ND | 84 | 89 | 5.8 | 88 | 79 | 10.8 | 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 | 87 | 91 | 4.5 | 90 | 85 | 5.7 | 40 - 140 | 20 |
| PCB-1262 | ND | | | | | | | 40 - 140 | 20 |
| PCB-1268 | ND | | | | | | | 40 - 140 | 20 |
| % DCBP (Surrogate Rec) | 40 | 64 | 62 | 3.2 | 79 | 74 | 6.5 | 30 - 150 | 20 |
| % TCMX (Surrogate Rec) | 66 | 75 | 82 | 8.9 | 83 | 79 | 4.9 | 30 - 150 | 20 |

# QA/QC Data

SDG I.D.: GBD39250

QA/QC Batch 221785, QC Sample No: BD38490 (BD39250, BD39251)

## Semivolatiles - Ground Water

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 79 | 80 | 1.3 | | | | 30 - 130 | 20 | |
| 1,2,4-Trichlorobenzene | ND | 77 | 77 | 0.0 | | | | 30 - 130 | 20 | |
| 1,2-Dichlorobenzene | ND | 73 | 74 | 1.4 | | | | 30 - 130 | 20 | |
| 1,2-Diphenylhydrazine | ND | 64 | 64 | 0.0 | | | | 30 - 130 | 20 | |
| 1,3-Dichlorobenzene | ND | 73 | 73 | 0.0 | | | | 30 - 130 | 20 | |
| 1,4-Dichlorobenzene | ND | 72 | 72 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4,5-Trichlorophenol | ND | 76 | 76 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4,6-Trichlorophenol | ND | 71 | 70 | 1.4 | | | | 30 - 130 | 20 | |
| 2,4-Dichlorophenol | ND | 81 | 81 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4-Dimethylphenol | ND | 69 | 69 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrophenol | ND | 27 | 27 | 0.0 | | | | 30 - 130 | 20 | I |
| 2,4-Dinitrotoluene | ND | 81 | 80 | 1.2 | | | | 30 - 130 | 20 | |
| 2,6-Dinitrotoluene | ND | 81 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| 2-Chloronaphthalene | ND | 78 | 78 | 0.0 | | | | 30 - 130 | 20 | |
| 2-Chlorophenol | ND | 73 | 72 | 1.4 | | | | 30 - 130 | 20 | |
| 2-Methylnaphthalene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| 2-Methylphenol (o-cresol) | ND | 76 | 75 | 1.3 | | | | 30 - 130 | 20 | |
| 2-Nitroaniline | ND | 101 | 105 | 3.9 | | | | 30 - 130 | 20 | |
| 2-Nitrophenol | ND | 75 | 76 | 1.3 | | | | 30 - 130 | 20 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 77 | 76 | 1.3 | | | | 30 - 130 | 20 | |
| 3,3'-Dichlorobenzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| 3-Nitroaniline | ND | 22 | 25 | 12.8 | | | | 30 - 130 | 20 | I |
| 4,6-Dinitro-2-methylphenol | ND | 55 | 56 | 1.8 | | | | 30 - 130 | 20 | |
| 4-Bromophenyl phenyl ether | ND | 85 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| 4-Chloro-3-methylphenol | ND | 86 | 84 | 2.4 | | | | 30 - 130 | 20 | |
| 4-Chloroaniline | ND | <5 | <5 | NC | | | | 30 - 130 | 20 | I |
| 4-Chlorophenyl phenyl ether | ND | 83 | 83 | 0.0 | | | | 30 - 130 | 20 | |
| 4-Nitroaniline | ND | 81 | 81 | 0.0 | | | | 30 - 130 | 20 | |
| 4-Nitrophenol | ND | 43 | 40 | 7.2 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 76 | 76 | 0.0 | | | | 30 - 130 | 20 | |
| Acenaphthylene | ND | 66 | 65 | 1.5 | | | | 30 - 130 | 20 | |
| Acetophenone | ND | 81 | 79 | 2.5 | | | | 30 - 130 | 20 | |
| Aniline | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Anthracene | ND | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 84 | 82 | 2.4 | | | | 30 - 130 | 20 | |
| Benzidine | ND | N/A | N/A | NC | | | | 10 - 130 | 20 | |
| Benzo(a)pyrene | ND | 74 | 73 | 1.4 | | | | 30 - 130 | 20 | |
| Benzo(b)fluoranthene | ND | 87 | 89 | 2.3 | | | | 30 - 130 | 20 | |
| Benzo(ghi)perylene | ND | 92 | 86 | 6.7 | | | | 30 - 130 | 20 | |
| Benzo(k)fluoranthene | ND | 88 | 83 | 5.8 | | | | 30 - 130 | 20 | |
| Benzoic acid | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzyl butyl phthalate | ND | 87 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethoxy)methane | ND | 27 | 28 | 3.6 | | | | 30 - 130 | 20 | I |
| Bis(2-chloroethyl)ether | ND | 83 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| Bis(2-chloroisopropyl)ether | ND | 83 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| Bis(2-ethylhexyl)phthalate | ND | 105 | 105 | 0.0 | | | | 30 - 130 | 20 | |
| Carbazole | ND | 93 | 94 | 1.1 | | | | 30 - 130 | 20 | |
| Chrysene | ND | 81 | 80 | 1.2 | | | | 30 - 130 | 20 | |
| Dibenz(a,h)anthracene | ND | 92 | 88 | 4.4 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | 86 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 82 | 81 | 1.2 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 90 | 91 | 1.1 | | | | 30 - 130 | 20 | |
| Di-n-octylphthalate | ND | 92 | 93 | 1.1 | | | | 30 - 130 | 20 | |
| Fluoranthene | ND | 78 | 77 | 1.3 | | | | 30 - 130 | 20 | |
| Fluorene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| Hexachlorobenzene | ND | 89 | 86 | 3.4 | | | | 30 - 130 | 20 | |
| Hexachlorobutadiene | ND | 78 | 79 | 1.3 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 13 | 16 | 20.7 | | | | 30 - 130 | 20 | l,r |
| Hexachloroethane | ND | 72 | 72 | 0.0 | | | | 30 - 130 | 20 | |
| Indeno(1,2,3-cd)pyrene | ND | 91 | 87 | 4.5 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 84 | 84 | 0.0 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 82 | 82 | 0.0 | | | | 30 - 130 | 20 | |
| Nitrobenzene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| N-Nitrosodimethylamine | ND | 69 | 63 | 9.1 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 84 | 80 | 4.9 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 63 | 63 | 0.0 | | | | 30 - 130 | 20 | |
| Pentachloronitrobenzene | ND | 83 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| Pentachlorophenol | ND | 38 | 31 | 20.3 | | | | 30 - 130 | 20 | |
| Phenanthrene | ND | 83 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| Phenol | ND | 70 | 69 | 1.4 | | | | 30 - 130 | 20 | |
| Pyrene | ND | 76 | 76 | 0.0 | | | | 30 - 130 | 20 | |
| Pyridine | ND | 29 | 31 | 6.7 | | | | 30 - 130 | 20 | l |
| % 2,4,6-Tribromophenol | 95 | 77 | 72 | 6.7 | | | | 15 - 130 | 20 | |
| % 2-Fluorobiphenyl | 81 | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |
| % 2-Fluorophenol | 78 | 60 | 59 | 1.7 | | | | 15 - 130 | 20 | |
| % Nitrobenzene-d5 | 111 | 80 | 78 | 2.5 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 77 | 65 | 63 | 3.1 | | | | 15 - 130 | 20 | |
| % Terphenyl-d14 | 108 | 83 | 81 | 2.4 | | | | 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 222010, QC Sample No: BD39252 (BD39250, BD39251, BD39252)

## Volatiles - Ground Water

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 91 | 96 | 5.3 | 91 | 95 | 4.3 | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 81 | 83 | 2.4 | 80 | 88 | 9.5 | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 91 | 93 | 2.2 | 93 | 95 | 2.1 | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 96 | 99 | 3.1 | 93 | 99 | 6.3 | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 84 | 86 | 2.4 | 86 | 93 | 7.8 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 80 | 82 | 2.5 | 77 | 89 | 14.5 | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 83 | 90 | 8.1 | 80 | 89 | 10.7 | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 94 | 100 | 6.2 | 92 | 95 | 3.2 | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 90 | 92 | 2.2 | 93 | 93 | 0.0 | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 90 | 97 | 7.5 | 90 | 94 | 4.3 | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 89 | 93 | 4.4 | 86 | 91 | 5.6 | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 99 | 102 | 3.0 | 91 | 94 | 3.2 | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 95 | 98 | 3.1 | 94 | 100 | 6.2 | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 89 | 94 | 5.5 | 88 | 91 | 3.4 | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 93 | 95 | 2.1 | 97 | 100 | 3.0 | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 86 | 90 | 4.5 | 88 | 92 | 4.4 | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 87 | 91 | 4.5 | 84 | 91 | 8.0 | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 88 | 93 | 5.5 | 85 | 90 | 5.7 | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichloropropane | ND | 92 | 93 | 1.1 | 92 | 94 | 2.2 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 87 | 93 | 6.7 | 86 | 90 | 4.5 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 75 | 77 | 2.6 | 58 | 64 | 9.8 | 70 - 130 | 30 | m |
| 2-Chlorotoluene | ND | 87 | 92 | 5.6 | 85 | 89 | 4.6 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 93 | 95 | 2.1 | 95 | 102 | 7.1 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 85 | 88 | 3.5 | 84 | 90 | 6.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 84 | 90 | 6.9 | 86 | 91 | 5.6 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 95 | 94 | 1.1 | 98 | 98 | 0.0 | 70 - 130 | 30 | |
| Acetone | ND | 97 | 94 | 3.1 | 109 | 107 | 1.9 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 99 | 97 | 2.0 | 99 | 106 | 6.8 | 70 - 130 | 30 | |
| Benzene | ND | 85 | 89 | 4.6 | 86 | 92 | 6.7 | 70 - 130 | 30 | |
| Bromobenzene | ND | 88 | 92 | 4.4 | 87 | 91 | 4.5 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 83 | 83 | 0.0 | 81 | 83 | 2.4 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 90 | 95 | 5.4 | 90 | 97 | 7.5 | 70 - 130 | 30 | |
| Bromoform | ND | 95 | 98 | 3.1 | 88 | 91 | 3.4 | 70 - 130 | 30 | |
| Bromomethane | ND | 80 | 84 | 4.9 | 40 | 59 | 38.4 | 70 - 130 | 30 | m,r |
| Carbon Disulfide | ND | 74 | 76 | 2.7 | 72 | 82 | 13.0 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 83 | 90 | 8.1 | 82 | 92 | 11.5 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 88 | 92 | 4.4 | 87 | 91 | 4.5 | 70 - 130 | 30 | |
| Chloroethane | ND | 84 | 85 | 1.2 | 77 | 90 | 15.6 | 70 - 130 | 30 | |
| Chloroform | ND | 85 | 85 | 0.0 | 85 | 89 | 4.6 | 70 - 130 | 30 | |
| Chloromethane | ND | 78 | 80 | 2.5 | 73 | 82 | 11.6 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 89 | 91 | 2.2 | 87 | 93 | 6.7 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 92 | 95 | 3.2 | 86 | 91 | 5.6 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 95 | 100 | 5.1 | 92 | 97 | 5.3 | 70 - 130 | 30 | |
| Dibromomethane | ND | 97 | 98 | 1.0 | 94 | 97 | 3.1 | 70 - 130 | 30 | |
| Dichlorodifluoromethane | ND | 77 | 79 | 2.6 | 73 | 82 | 11.6 | 70 - 130 | 30 | |
| Ethylbenzene | ND | 84 | 90 | 6.9 | 85 | 92 | 7.9 | 70 - 130 | 30 | |
| Hexachlorobutadiene | ND | 75 | 84 | 11.3 | 75 | 83 | 10.1 | 70 - 130 | 30 | |
| Isopropylbenzene | ND | 86 | 91 | 5.6 | 84 | 91 | 8.0 | 70 - 130 | 30 | |
| m&p-Xylene | ND | 86 | 91 | 5.6 | 85 | 91 | 6.8 | 70 - 130 | 30 | |
| Methyl ethyl ketone | ND | 85 | 80 | 6.1 | 91 | 96 | 5.3 | 70 - 130 | 30 | |
| Methyl t-butyl ether (MTBE) | ND | 93 | 93 | 0.0 | 97 | 100 | 3.0 | 70 - 130 | 30 | |
| Methylene chloride | ND | 86 | 85 | 1.2 | 86 | 90 | 4.5 | 70 - 130 | 30 | |
| Naphthalene | ND | 104 | 107 | 2.8 | 99 | 105 | 5.9 | 70 - 130 | 30 | |
| n-Butylbenzene | ND | 83 | 88 | 5.8 | 80 | 88 | 9.5 | 70 - 130 | 30 | |
| n-Propylbenzene | ND | 87 | 92 | 5.6 | 82 | 90 | 9.3 | 70 - 130 | 30 | |
| o-Xylene | ND | 89 | 95 | 6.5 | 89 | 93 | 4.4 | 70 - 130 | 30 | |
| p-Isopropyltoluene | ND | 87 | 92 | 5.6 | 83 | 89 | 7.0 | 70 - 130 | 30 | |
| sec-Butylbenzene | ND | 81 | 87 | 7.1 | 81 | 89 | 9.4 | 70 - 130 | 30 | |
| Styrene | ND | 88 | 91 | 3.4 | 89 | 93 | 4.4 | 70 - 130 | 30 | |
| tert-Butylbenzene | ND | 85 | 90 | 5.7 | 84 | 91 | 8.0 | 70 - 130 | 30 | |
| Tetrachloroethene | ND | 81 | 87 | 7.1 | 77 | 87 | 12.2 | 70 - 130 | 30 | |
| Tetrahydrofuran (THF) | ND | 94 | 92 | 2.2 | 97 | 94 | 3.1 | 70 - 130 | 30 | |
| Toluene | ND | 86 | 90 | 4.5 | 85 | 92 | 7.9 | 70 - 130 | 30 | |
| trans-1,2-Dichloroethene | ND | 83 | 85 | 2.4 | 79 | 90 | 13.0 | 70 - 130 | 30 | |
| trans-1,3-Dichloropropene | ND | 91 | 94 | 3.2 | 88 | 92 | 4.4 | 70 - 130 | 30 | |
| trans-1,4-dichloro-2-butene | ND | 81 | 84 | 3.6 | 67 | 73 | 8.6 | 70 - 130 | 30 | m |
| Trichloroethene | ND | 89 | 96 | 7.6 | 84 | 92 | 9.1 | 70 - 130 | 30 | |
| Trichlorofluoromethane | ND | 79 | 81 | 2.5 | 76 | 86 | 12.3 | 70 - 130 | 30 | |
| Trichlorotrifluoroethane | ND | 74 | 76 | 2.7 | 72 | 82 | 13.0 | 70 - 130 | 30 | |
| Vinyl chloride | ND | 78 | 78 | 0.0 | 73 | 84 | 14.0 | 70 - 130 | 30 | |
| % 1,2-dichlorobenzene-d4 | 102 | 100 | 101 | 1.0 | 102 | 100 | 2.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD39250

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| % Bromofluorobenzene | 93 | 99 | 99 | 0.0 | 101 | 100 | 1.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 94 | 98 | 96 | 2.1 | 96 | 96 | 0.0 | 70 - 130 | 30 |
| % Toluene-d8 | 98 | 100 | 100 | 0.0 | 101 | 100 | 1.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of 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 05, 2013

Tuesday, March 05, 2013

Requested Criteria: None

State: NY

# Sample Criteria Exceedences Report

## GBD39250 - EBC

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

*** No Data to Display ***

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

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

# NY Temperature Narration

**March 05, 2013**

**SDG I.D.: GBD39250**

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

4°w/c + Ip

Temp

# NY/NJ CHAIN OF CUSTODY RECORD

Pg 1 of 1

**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: csosik@ebcincny.com

Customer: Environmental Business Consultants
Address: 1808 Middle Country Rd
Ridge NY 11961

Project: 212-218 N 9th St, Brooklyn NY
Report to: EBC
Invoice to: EBC

Project P.O:
Phone #: 631-504-6000
Fax #:

**Client Sample - Information - Identification**

Sampler's Signature: [signature] Date: 2/19/13

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

Analysis Request

| Phoenix Sample # | Customer Sample Identification | Sample Matrix | Date Sampled | Time Sampled | VOCs 8260 | SVOCs 8270 | Pesticides 8081 | PCBs 8082 | TAL Metals (total) | TAL Metals (dissolved) | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [ ] HCl | GL Amber 1000ml [X] As is [X] HCl | PL As is [X] 250ml [ ] H2SO4 | PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 39250 | MW-1 | GW | 2/19/13 | | X | X | X | X | X | X | | | | 3 | 3 | 1 | | 1 | | |
| 39251 | MW-3 | GW | 2/19/13 | | X | X | X | X | X | X | | | | ↓ | ↓ | 1 | | 1 | | |
| 39252 | Trip Blank | — | — | | X | | | | | | | | | ↓ | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 2-22-13 | 8:05 |
| [signature] | Cornadise | 2-22-13 | 1619 |

**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 22, 2013**

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

**Project ID: 212 N 9TH ST.**
**Sample ID#s: BD47883 - BD47885**

**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 22, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 03/14/13 | 12:45 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47883
Phoenix ID: BD47883

Project ID: 212 N 9TH ST.
Client ID: MW2

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Aluminum | 6.75 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Arsenic | 0.010 | 0.004 | mg/L | 03/19/13 | LK | SW6010 |
| Barium | 3.35 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Beryllium | < 0.001 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Calcium | 181 | 0.10 | mg/L | 03/19/13 | LK | SW6010 |
| Cadmium | 0.004 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Cobalt | 0.007 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Chromium | 0.019 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Copper | 0.036 | 0.005 | mg/L | 03/19/13 | LK | SW6010 |
| Iron | 10.0 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Mercury | < 0.0002 | 0.0002 | mg/L | 03/20/13 | RS | SW7470 |
| Potassium | 6.4 | 0.1 | mg/L | 03/19/13 | LK | SW6010 |
| Magnesium | 9.97 | 0.01 | mg/L | 03/19/13 | LK | SW6010 |
| Manganese | 0.562 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Sodium | 17.0 | 0.1 | mg/L | 03/19/13 | LK | SW6010 |
| Nickel | 0.017 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Lead | 0.380 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Antimony | < 0.005 | 0.005 | mg/L | 03/19/13 | LK | SW6010 |
| Selenium | < 0.010 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Thallium | < 0.002 | 0.002 | mg/L | 03/19/13 | RS | SM3113B/SW70 |
| Vanadium | 0.018 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Zinc | 5.92 | 0.020 | mg/L | 03/19/13 | LK | SW6010 |
| Mercury Digestion | Completed | | | 03/18/13 | X/X | SW7470 |
| PCB Extraction | Completed | | | 03/15/13 | T | SW3510C |
| Extraction for Pest (2 Liter) | Completed | | | 03/15/13 | T | SW3510 |
| Semi-Volatile Extraction | Completed | | | 03/15/13 | I/D | SW3520 |
| Total Metals Digestion | Completed | | | 03/15/13 | AG | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 146 | | % | 03/19/13 | AW | 30 - 150 % | |
| % TCMX | 88 | | % | 03/19/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| a-BHC | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Alachlor | ND* | 0.77 | ug/L | 03/18/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 0.015 | ug/L | 03/18/13 | MH | SW8081 | |
| b-BHC | ND* | 0.052 | ug/L | 03/18/13 | MH | SW8081 | |
| Chlordane | ND* | 3.1 | ug/L | 03/18/13 | MH | SW8081 | |
| d-BHC | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Dieldrin | ND* | 0.015 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan I | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan II | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan Sulfate | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin Aldehyde | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin ketone | ND* | 0.52 | ug/L | 03/18/13 | MH | SW8081 | |
| g-BHC (Lindane) | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Heptachlor | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Methoxychlor | ND* | 1.0 | ug/L | 03/18/13 | MH | SW8081 | |
| Toxaphene | ND* | 10 | ug/L | 03/18/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| %DCBP (Surrogate Rec) | Diluted Out | | % | 03/18/13 | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | Diluted Out | | % | 03/18/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloropropene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dibromoethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichloroethane | ND | 1.2 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2,2-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Chlorotoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Hexanone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Isopropyltoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Acetone | ND | 50 | ug/L | 03/19/13 | R/T | SW8260 | |
| Acrylonitrile | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Benzene | ND | 1.4 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromochloromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromodichloromethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromoform | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromomethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloroform | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Dibromomethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.80 | ug/L | 03/19/13 | R/T | SW8260 | |
| Isopropylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methylene chloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Naphthalene | 4.9 | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| n-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| n-Propylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| o-Xylene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| p-Isopropyltoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| sec-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| Toluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Total Xylenes | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 91 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 101 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 109 | | % | 03/19/13 | R/T | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,2-Diphenylhydrazine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Methylnaphthalene | 16 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Methylphenol (o-cresol) | 130 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | 390 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Anthracene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Diethyl phthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Fluoranthene | 9.4 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Fluorene | 7.2 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Naphthalene | 15 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Phenol | 98 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| Pyrene | 8.7 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 96 | | % | 03/19/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 68 | | % | 03/19/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 65 | | % | 03/19/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 91 | | % | 03/19/13 | DD | 30 - 130 % |
| % Phenol-d5 | 74 | | % | 03/19/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 16 | | % | 03/19/13 | DD | 30 - 130 % 3 |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Acenaphthene | 6.6 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Acenaphthylene | 0.97 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benz(a)anthracene | 3.7 | 0.040 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(a)pyrene | 3.4 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | 4.3 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | 1.4 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Chrysene | 3.5 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | 0.53 | 0.010 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | 2.3 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 03/18/13 | DD | SW8270 (SIM) |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Phenanthrene | 16 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) | |
| Pyridine | ND | 0.50 | ug/L | 03/18/13 | DD | SW8270 (SIM) | |
| **QA/QC Surrogates** | | | | | | | |
| % 2,4,6-Tribromophenol | 96 | | % | 03/18/13 | DD | 15 - 130 % | |
| % 2-Fluorobiphenyl | 68 | | % | 03/18/13 | DD | 30 - 130 % | |
| % 2-Fluorophenol | 65 | | % | 03/18/13 | DD | 15 - 130 % | |
| % Nitrobenzene-d5 | 91 | | % | 03/18/13 | DD | 30 - 130 % | |
| % Phenol-d5 | 74 | | % | 03/18/13 | DD | 15 - 130 % | |
| % Terphenyl-d14 | 16 | | % | 03/18/13 | DD | 30 - 130 % | 3 |

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

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

## 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.

* One of the surrogate recovery's was below the lower range for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

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**Phyllis Shiller, Laboratory Director**
**March 22, 2013**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

March 22, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 03/14/13 | 12:45 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47883
Phoenix ID: BD47884

Project ID: 212 N 9TH ST.
Client ID: GW DUPLICATE

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Silver | < 0.001 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Aluminum | 11.2 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Arsenic | 0.012 | 0.004 | mg/L | 03/19/13 | LK | SW6010 |
| Barium | 5.20 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Beryllium | < 0.001 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Calcium | 175 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Cadmium | 0.005 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Cobalt | 0.010 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Chromium | 0.034 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Copper | 0.054 | 0.005 | mg/L | 03/19/13 | LK | SW6010 |
| Iron | 15.8 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Mercury | < 0.0002 | 0.0002 | mg/L | 03/20/13 | RS | SW7470 |
| Potassium | 7.3 | 0.1 | mg/L | 03/19/13 | LK | SW6010 |
| Magnesium | 10.8 | 0.01 | mg/L | 03/19/13 | LK | SW6010 |
| Manganese | 0.584 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Sodium | 16.3 | 0.1 | mg/L | 03/19/13 | LK | SW6010 |
| Nickel | 0.023 | 0.001 | mg/L | 03/19/13 | LK | SW6010 |
| Lead | 0.508 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Antimony | < 0.005 | 0.005 | mg/L | 03/19/13 | LK | SW6010 |
| Selenium | < 0.010 | 0.010 | mg/L | 03/19/13 | LK | SW6010 |
| Thallium | < 0.002 | 0.002 | mg/L | 03/19/13 | RS | SM3113B/SW70 |
| Vanadium | 0.027 | 0.002 | mg/L | 03/19/13 | LK | SW6010 |
| Zinc | 6.21 | 0.020 | mg/L | 03/19/13 | LK | SW6010 |
| Mercury Digestion | Completed | | | 03/18/13 | X/X | SW7470 |
| PCB Extraction | Completed | | | 03/15/13 | T | SW3510C |
| Extraction for Pest (2 Liter) | Completed | | | 03/15/13 | T | SW3510 |
| Semi-Volatile Extraction | Completed | | | 03/15/13 | I/D | SW3520 |
| Total Metals Digestion | Completed | | | 03/15/13 | AG | |

Project ID: 212 N 9TH ST.
Client ID: GW DUPLICATE

Phoenix I.D.: BD47884

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **Polychlorinated Biphenyls** | | | | | | | |
| PCB-1016 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1221 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1232 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1242 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1248 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1254 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1260 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1262 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| PCB-1268 | ND | 0.10 | ug/L | 03/19/13 | AW | 8082 | |
| **QA/QC Surrogates** | | | | | | | |
| % DCBP | 110 | | % | 03/19/13 | AW | 30 - 150 % | |
| % TCMX | 62 | | % | 03/19/13 | AW | 30 - 150 % | |
| **Pesticides** | | | | | | | |
| 4,4' -DDD | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| 4,4' -DDE | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| 4,4' -DDT | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| a-BHC | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Alachlor | ND* | 0.76 | ug/L | 03/18/13 | MH | SW8081 | 1 |
| Aldrin | ND* | 0.015 | ug/L | 03/18/13 | MH | SW8081 | |
| b-BHC | ND* | 0.051 | ug/L | 03/18/13 | MH | SW8081 | |
| Chlordane | ND* | 3.1 | ug/L | 03/18/13 | MH | SW8081 | |
| d-BHC | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Dieldrin | ND* | 0.015 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan I | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan II | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| Endosulfan Sulfate | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin Aldehyde | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| Endrin ketone | ND* | 0.51 | ug/L | 03/18/13 | MH | SW8081 | |
| g-BHC (Lindane) | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Heptachlor | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Heptachlor epoxide | ND* | 0.26 | ug/L | 03/18/13 | MH | SW8081 | |
| Methoxychlor | ND* | 1.0 | ug/L | 03/18/13 | MH | SW8081 | |
| Toxaphene | ND* | 10 | ug/L | 03/18/13 | MH | SW8081 | |
| **QA/QC Surrogates** | | | | | | | |
| %DCBP (Surrogate Rec) | Diluted Out | | % | 03/18/13 | MH | 30 - 150 % | |
| %TCMX (Surrogate Rec) | Diluted Out | | % | 03/18/13 | MH | 30 - 150 % | |
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,1-Dichloropropene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |

Project ID: 212 N 9TH ST.
Client ID: GW DUPLICATE

Phoenix I.D.: BD47884

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dibromoethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichloroethane | ND | 1.2 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,2-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,3-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2,2-Dichloropropane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Chlorotoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Hexanone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| 2-Isopropyltoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Acetone | ND | 50 | ug/L | 03/19/13 | R/T | SW8260 | |
| Acrylonitrile | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Benzene | ND | 1.4 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromochloromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromodichloromethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromoform | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Bromomethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloroform | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Chloromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Dibromomethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.80 | ug/L | 03/19/13 | R/T | SW8260 | |
| Isopropylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Methylene chloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Naphthalene | 5.9 | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| n-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| n-Propylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| o-Xylene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| p-Isopropyltoluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| sec-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |

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Phoenix I.D.: BD47884

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Styrene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 5.0 | ug/L | 03/19/13 | R/T | SW8260 | 1 |
| Toluene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Total Xylenes | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 1.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 10 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichloroethene | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 2.0 | ug/L | 03/19/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 93 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 94 | | % | 03/19/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 110 | | % | 03/19/13 | R/T | 70 - 130 % | |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,2-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,2-Diphenylhydrazine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,3-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 1,4-Dichlorobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4,5-Trichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4,6-Trichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dichlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dimethylphenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dinitrophenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 2,4-Dinitrotoluene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2,6-Dinitrotoluene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Chloronaphthalene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Chlorophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Methylnaphthalene | 14 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Methylphenol (o-cresol) | 100 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Nitroaniline | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 2-Nitrophenol | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 3&4-Methylphenol (m&p-cresol) | 310 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| 3,3'-Dichlorobenzidine | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 3-Nitroaniline | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 4,6-Dinitro-2-methylphenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Bromophenyl phenyl ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chloro-3-methylphenol | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chloroaniline | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Chlorophenyl phenyl ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Nitroaniline | ND | 20 | ug/L | 03/19/13 | DD | SW8270 |
| 4-Nitrophenol | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Acetophenone | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Aniline | ND | 10 | ug/L | 03/19/13 | DD | SW8270 |

Project ID: 212 N 9TH ST.
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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Anthracene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Benzidine | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Benzoic acid | ND | 50 | ug/L | 03/19/13 | DD | SW8270 |
| Benzyl butyl phthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroethoxy)methane | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroethyl)ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Bis(2-chloroisopropyl)ether | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Carbazole | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Dibenzofuran | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Diethyl phthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Dimethylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Di-n-butylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Di-n-octylphthalate | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Fluoranthene | 10 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Fluorene | 6.3 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Hexachlorobutadiene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Hexachlorocyclopentadiene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Isophorone | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Naphthalene | 13 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Nitrobenzene | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodimethylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodi-n-propylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| N-Nitrosodiphenylamine | ND | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| Phenol | 76 | 10 | ug/L | 03/19/13 | DD | SW8270 |
| Pyrene | 9 | 5.0 | ug/L | 03/19/13 | DD | SW8270 |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 97 | | % | 03/19/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 68 | | % | 03/19/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 59 | | % | 03/19/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 91 | | % | 03/19/13 | DD | 30 - 130 % |
| % Phenol-d5 | 72 | | % | 03/19/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 30 | | % | 03/19/13 | DD | 30 - 130 % |

## Semivolatiles

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 1.6 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Acenaphthene | 5.3 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Acenaphthylene | 0.82 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benz(a)anthracene | 4.2 | 0.040 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(a)pyrene | 3.8 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(b)fluoranthene | 4.4 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(ghi)perylene | ND | 3.0 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Benzo(k)fluoranthene | 1.8 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Bis(2-ethylhexyl)phthalate | ND | 1.6 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Chrysene | 3.8 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Dibenz(a,h)anthracene | 0.57 | 0.010 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Hexachlorobenzene | ND | 0.060 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Hexachloroethane | ND | 2.4 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Indeno(1,2,3-cd)pyrene | 2.7 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Pentachloronitrobenzene | ND | 0.10 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Pentachlorophenol | ND | 0.80 | ug/L | 03/18/13 | DD | SW8270 (SIM) |

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| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference |
|---|---|---|---|---|---|---|
| Phenanthrene | 15 | 0.050 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| Pyridine | ND | 0.50 | ug/L | 03/18/13 | DD | SW8270 (SIM) |
| **QA/QC Surrogates** | | | | | | |
| % 2,4,6-Tribromophenol | 97 | | % | 03/18/13 | DD | 15 - 130 % |
| % 2-Fluorobiphenyl | 68 | | % | 03/18/13 | DD | 30 - 130 % |
| % 2-Fluorophenol | 59 | | % | 03/18/13 | DD | 15 - 130 % |
| % Nitrobenzene-d5 | 91 | | % | 03/18/13 | DD | 30 - 130 % |
| % Phenol-d5 | 72 | | % | 03/18/13 | DD | 15 - 130 % |
| % Terphenyl-d14 | 30 | | % | 03/18/13 | 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.

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.

* For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.

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

**Phyllis Shiller, Laboratory Director**
**March 22, 2013**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

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 22, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | GROUND WATER | Collected by: | | 03/14/13 | 12:45 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 72 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47883
Phoenix ID: BD47885

Project ID: 212 N 9TH ST.
Client ID: TRIP BLANK

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| **Volatiles** | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1,1-Trichloroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1,2-Trichloroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1-Dichloroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1-Dichloroethene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,1-Dichloropropene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2,3-Trichloropropane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2-Dibromoethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2-Dichloroethane | ND | 0.60 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,2-Dichloropropane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,3-Dichlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,3-Dichloropropane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 1,4-Dichlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 2,2-Dichloropropane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 2-Chlorotoluene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 2-Hexanone | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 2-Isopropyltoluene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | 1 |
| 4-Chlorotoluene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| 4-Methyl-2-pentanone | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Acetone | ND | 25 | ug/L | 03/18/13 | R/T | SW8260 | |

Project ID: 212 N 9TH ST.
Client ID: TRIP BLANK

Phoenix I.D.: BD47885

| Parameter | Result | RL/ PQL | Units | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|
| Acrylonitrile | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Benzene | ND | 0.70 | ug/L | 03/18/13 | R/T | SW8260 | |
| Bromobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Bromochloromethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Bromodichloromethane | ND | 0.50 | ug/L | 03/18/13 | R/T | SW8260 | |
| Bromoform | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Bromomethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Carbon Disulfide | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Carbon tetrachloride | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Chlorobenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Chloroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Chloroform | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Chloromethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| cis-1,3-Dichloropropene | ND | 0.50 | ug/L | 03/18/13 | R/T | SW8260 | 1 |
| Dibromochloromethane | ND | 0.50 | ug/L | 03/18/13 | R/T | SW8260 | |
| Dibromomethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Dichlorodifluoromethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Ethylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Hexachlorobutadiene | ND | 0.40 | ug/L | 03/18/13 | R/T | SW8260 | |
| Isopropylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| m&p-Xylene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Methyl ethyl ketone | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Methyl t-butyl ether (MTBE) | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Methylene chloride | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Naphthalene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| n-Butylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| n-Propylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| o-Xylene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| p-Isopropyltoluene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| sec-Butylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Styrene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| tert-Butylbenzene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Tetrachloroethene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Tetrahydrofuran (THF) | ND | 2.5 | ug/L | 03/18/13 | R/T | SW8260 | 1 |
| Toluene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Total Xylenes | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| trans-1,2-Dichloroethene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| trans-1,3-Dichloropropene | ND | 0.50 | ug/L | 03/18/13 | R/T | SW8260 | |
| trans-1,4-dichloro-2-butene | ND | 5.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Trichloroethene | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Trichlorofluoromethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Trichlorotrifluoroethane | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| Vinyl chloride | ND | 1.0 | ug/L | 03/18/13 | R/T | SW8260 | |
| **QA/QC Surrogates** | | | | | | | |
| % 1,2-dichlorobenzene-d4 | 102 | | % | 03/18/13 | R/T | 70 - 130 % | |
| % Bromofluorobenzene | 85 | | % | 03/18/13 | R/T | 70 - 130 % | |
| % Dibromofluoromethane | 103 | | % | 03/18/13 | R/T | 70 - 130 % | |
| % Toluene-d8 | 97 | | % | 03/18/13 | R/T | 70 - 130 % | |

Project ID: 212 N 9TH ST.
Client ID: TRIP BLANK

Phoenix I.D.: BD47885

| 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.

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 22, 2013**
**Reviewed and Released by: Bobbi Aloisa, Vice President**

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

March 22, 2013

## QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | Sample Result | Dup Result | Dup RPD | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 223670, QC Sample No: BD46556 (BD47883, BD47884) | | | | | | | | | | | | | |
| Mercury - Water | BRL | <0.0002 | <0.0002 | NC | 106 | 103 | 2.9 | 105 | 109 | 3.7 | 70 - 130 | 20 | |
| Comment: | | | | | | | | | | | | | |
| Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. | | | | | | | | | | | | | |
| QA/QC Batch 223524, QC Sample No: BD47213 (BD47883, BD47884) | | | | | | | | | | | | | |
| Thallium - Water | BRL | <0.002 | <0.002 | NC | 115 | 116 | 0.9 | 113 | 115 | 1.8 | 75 - 125 | 20 | |
| QA/QC Batch 223612, QC Sample No: BD47309 (BD47883, BD47884) | | | | | | | | | | | | | |
| ICP Metals - Aqueous | | | | | | | | | | | | | |
| Aluminum | BRL | 0.148 | 0.115 | 25.1 | 91.7 | 91.0 | 0.8 | 94.2 | 93.1 | 1.2 | 75 - 125 | 20 | r |
| Antimony | BRL | <0.005 | <0.005 | NC | 99.2 | 98.3 | 0.9 | 104 | 106 | 1.9 | 75 - 125 | 20 | |
| Arsenic | BRL | <0.004 | <0.004 | NC | 91.8 | 92.2 | 0.4 | 101 | 102 | 1.0 | 75 - 125 | 20 | |
| Barium | BRL | 0.330 | 0.328 | 0.60 | 104 | 103 | 1.0 | 108 | 108 | 0.0 | 75 - 125 | 20 | |
| Beryllium | BRL | <0.001 | <0.001 | NC | 95.9 | 95.8 | 0.1 | 102 | 103 | 1.0 | 75 - 125 | 20 | |
| Cadmium | BRL | <0.001 | <0.001 | NC | 94.2 | 94.3 | 0.1 | 102 | 103 | 1.0 | 75 - 125 | 20 | |
| Calcium | BRL | 29.7 | 29.5 | 0.70 | 92.7 | 92.4 | 0.3 | NC | NC | NC | 75 - 125 | 20 | |
| Chromium | BRL | <0.001 | <0.001 | NC | 93.6 | 93.7 | 0.1 | 101 | 102 | 1.0 | 75 - 125 | 20 | |
| Cobalt | BRL | <0.002 | <0.002 | NC | 98.6 | 98.2 | 0.4 | 105 | 107 | 1.9 | 75 - 125 | 20 | |
| Copper | BRL | <0.005 | <0.005 | NC | 99.5 | 99.1 | 0.4 | 104 | 106 | 1.9 | 75 - 125 | 20 | |
| Iron | BRL | 0.448 | 0.451 | 0.70 | 97.3 | 97.0 | 0.3 | 104 | 106 | 1.9 | 75 - 125 | 20 | |
| Lead | BRL | 0.003 | 0.004 | NC | 94.0 | 93.4 | 0.6 | 101 | 102 | 1.0 | 75 - 125 | 20 | |
| Magnesium | BRL | 4.95 | 4.92 | 0.60 | 97.6 | 97.6 | 0.0 | 105 | 108 | 2.8 | 75 - 125 | 20 | |
| Manganese | BRL | 0.053 | 0.053 | 0 | 96.9 | 96.7 | 0.2 | 103 | 104 | 1.0 | 75 - 125 | 20 | |
| Nickel | BRL | <0.001 | <0.001 | NC | 97.0 | 96.8 | 0.2 | 105 | 106 | 0.9 | 75 - 125 | 20 | |
| Potassium | BRL | 2.7 | 2.6 | 3.80 | 101 | 99.7 | 1.3 | 105 | 104 | 1.0 | 75 - 125 | 20 | |
| Selenium | BRL | <0.010 | <0.010 | NC | 88.5 | 88.5 | 0.0 | 96.1 | 97.5 | 1.4 | 75 - 125 | 20 | |
| Silver | BRL | 0.001 | <0.001 | NC | 93.1 | 93.2 | 0.1 | 99.5 | 101 | 1.5 | 75 - 125 | 20 | |
| Sodium | BRL | 244 | 241 | 1.20 | 99.5 | 97.2 | 2.3 | NC | NC | NC | 75 - 125 | 20 | |
| Vanadium | BRL | 0.003 | 0.003 | NC | 95.4 | 95.0 | 0.4 | 102 | 103 | 1.0 | 75 - 125 | 20 | |
| Zinc | BRL | 0.022 | 0.022 | 0 | 93.5 | 93.3 | 0.2 | 102 | 103 | 1.0 | 75 - 125 | 20 | |

r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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# QA/QC Report

March 22, 2013

## QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| QA/QC Batch 223375, QC Sample No: BD46484 (BD47883, BD47884) | | | | | | | | | | |
| **Pesticides - Ground Water** | | | | | | | | | | |
| 4,4' -DDD | ND | >130 | >130 | NC | | | | 40 - 140 | 20 | I |
| 4,4' -DDE | ND | 114 | 117 | 2.6 | | | | 40 - 140 | 20 | |
| 4,4' -DDT | ND | 93 | 90 | 3.3 | | | | 40 - 140 | 20 | |
| a-BHC | ND | 98 | 100 | 2.0 | | | | 40 - 140 | 20 | |
| a-Chlordane | ND | 105 | 108 | 2.8 | | | | 40 - 140 | 20 | |
| Alachlor | ND | N/A | N/A | NC | | | | 40 - 140 | 20 | |
| Aldrin | ND | 83 | 82 | 1.2 | | | | 40 - 140 | 20 | |
| b-BHC | ND | 102 | 103 | 1.0 | | | | 40 - 140 | 20 | |
| Chlordane | ND | N/A | N/A | NC | | | | 40 - 140 | 20 | |
| d-BHC | ND | 93 | 95 | 2.1 | | | | 40 - 140 | 20 | |
| Dieldrin | ND | 104 | 106 | 1.9 | | | | 40 - 140 | 20 | |
| Endosulfan I | ND | 90 | 88 | 2.2 | | | | 40 - 140 | 20 | |
| Endosulfan II | ND | 106 | 108 | 1.9 | | | | 40 - 140 | 20 | |
| Endosulfan sulfate | ND | 104 | 116 | 10.9 | | | | 40 - 140 | 20 | |
| Endrin | ND | 102 | 105 | 2.9 | | | | 40 - 140 | 20 | |
| Endrin aldehyde | ND | 114 | 122 | 6.8 | | | | 40 - 140 | 20 | |
| Endrin ketone | ND | 120 | 121 | 0.8 | | | | 40 - 140 | 20 | |
| g-BHC | ND | 99 | 101 | 2.0 | | | | 40 - 140 | 20 | |
| g-Chlordane | ND | 99 | 101 | 2.0 | | | | 40 - 140 | 20 | |
| Heptachlor | ND | 105 | 108 | 2.8 | | | | 40 - 140 | 20 | |
| Heptachlor epoxide | ND | 94 | 95 | 1.1 | | | | 40 - 140 | 20 | |
| Methoxychlor | ND | >130 | >130 | NC | | | | 40 - 140 | 20 | I |
| Toxaphene | ND | N/A | N/A | NC | | | | 40 - 140 | 20 | |
| % DCBP | 93 | 95 | 100 | 5.1 | | | | 30 - 150 | 20 | |
| % TCMX | 84 | 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 223506, QC Sample No: BD47063 (BD47883, BD47884) | | | | | | | | | | |
| **Polychlorinated Biphenyls - Ground Water** | | | | | | | | | | |
| PCB-1016 | ND | 72 | 85 | 16.6 | | | | 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 | 70 | 87 | 21.7 | | | | 40 - 140 | 20 | r |
| PCB-1262 | ND | | | | | | | 40 - 140 | 20 | |
| PCB-1268 | ND | | | | | | | 40 - 140 | 20 | |
| % DCBP (Surrogate Rec) | 76 | 71 | 77 | 8.1 | | | | 30 - 150 | 20 | |
| % TCMX (Surrogate Rec) | 71 | 71 | 71 | 0.0 | | | | 30 - 150 | 20 | |

# QA/QC Data

SDG I.D.: GBD47883

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 223848, QC Sample No: BD47885 (BD47885)

## Volatiles - Ground Water

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 111 | 116 | 4.4 | 95 | 91 | 4.3 | 70 - 130 | 30 |
| 1,1,1-Trichloroethane | ND | 117 | 118 | 0.9 | 100 | 96 | 4.1 | 70 - 130 | 30 |
| 1,1,2,2-Tetrachloroethane | ND | 104 | 108 | 3.8 | 93 | 96 | 3.2 | 70 - 130 | 30 |
| 1,1,2-Trichloroethane | ND | 114 | 128 | 11.6 | 99 | 97 | 2.0 | 70 - 130 | 30 |
| 1,1-Dichloroethane | ND | 120 | 119 | 0.8 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| 1,1-Dichloroethene | ND | 126 | 127 | 0.8 | 99 | 109 | 9.6 | 70 - 130 | 30 |
| 1,1-Dichloropropene | ND | 110 | 124 | 12.0 | 101 | 95 | 6.1 | 70 - 130 | 30 |
| 1,2,3-Trichlorobenzene | ND | 116 | 121 | 4.2 | 93 | 96 | 3.2 | 70 - 130 | 30 |
| 1,2,3-Trichloropropane | ND | 109 | 112 | 2.7 | 94 | 97 | 3.1 | 70 - 130 | 30 |
| 1,2,4-Trichlorobenzene | ND | 114 | 122 | 6.8 | 92 | 98 | 6.3 | 70 - 130 | 30 |
| 1,2,4-Trimethylbenzene | ND | 118 | 126 | 6.6 | 100 | 100 | 0.0 | 70 - 130 | 30 |
| 1,2-Dibromo-3-chloropropane | ND | 115 | 122 | 5.9 | 96 | 99 | 3.1 | 70 - 130 | 30 |
| 1,2-Dibromoethane | ND | 111 | 124 | 11.1 | 100 | 97 | 3.0 | 70 - 130 | 30 |
| 1,2-Dichlorobenzene | ND | 112 | 115 | 2.6 | 94 | 97 | 3.1 | 70 - 130 | 30 |
| 1,2-Dichloroethane | ND | 107 | 118 | 9.8 | 97 | 91 | 6.4 | 70 - 130 | 30 |
| 1,2-Dichloropropane | ND | 110 | 124 | 12.0 | 98 | 93 | 5.2 | 70 - 130 | 30 |
| 1,3,5-Trimethylbenzene | ND | 117 | 124 | 5.8 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| 1,3-Dichlorobenzene | ND | 115 | 120 | 4.3 | 94 | 95 | 1.1 | 70 - 130 | 30 |
| 1,3-Dichloropropane | ND | 112 | 116 | 3.5 | 96 | 96 | 0.0 | 70 - 130 | 30 |
| 1,4-Dichlorobenzene | ND | 113 | 117 | 3.5 | 94 | 94 | 0.0 | 70 - 130 | 30 |
| 2,2-Dichloropropane | ND | 119 | 119 | 0.0 | 74 | 71 | 4.1 | 70 - 130 | 30 |
| 2-Chlorotoluene | ND | 115 | 122 | 5.9 | 97 | 97 | 0.0 | 70 - 130 | 30 |
| 2-Hexanone | ND | 108 | 112 | 3.6 | 95 | 95 | 0.0 | 70 - 130 | 30 |
| 2-Isopropyltoluene | ND | 113 | 119 | 5.2 | 99 | 99 | 0.0 | 70 - 130 | 30 |
| 4-Chlorotoluene | ND | 115 | 120 | 4.3 | 98 | 98 | 0.0 | 70 - 130 | 30 |
| 4-Methyl-2-pentanone | ND | 109 | 128 | 16.0 | 101 | 101 | 0.0 | 70 - 130 | 30 |
| Acetone | ND | 97 | 98 | 1.0 | 82 | 87 | 5.9 | 70 - 130 | 30 |
| Acrylonitrile | ND | 114 | 110 | 3.6 | 96 | 101 | 5.1 | 70 - 130 | 30 |
| Benzene | ND | 107 | 122 | 13.1 | 102 | 94 | 8.2 | 70 - 130 | 30 |
| Bromobenzene | ND | 111 | 116 | 4.4 | 94 | 96 | 2.1 | 70 - 130 | 30 |
| Bromochloromethane | ND | 118 | 117 | 0.9 | 97 | 98 | 1.0 | 70 - 130 | 30 |
| Bromodichloromethane | ND | 112 | 124 | 10.2 | 98 | 94 | 4.2 | 70 - 130 | 30 |
| Bromoform | ND | 119 | 122 | 2.5 | 99 | 99 | 0.0 | 70 - 130 | 30 |
| Bromomethane | ND | 126 | 133 | 5.4 | 83 | 108 | 26.2 | 70 - 130 | 30 |
| Carbon Disulfide | ND | 115 | 114 | 0.9 | 102 | 108 | 5.7 | 70 - 130 | 30 |
| Carbon tetrachloride | ND | 112 | 127 | 12.6 | 99 | 93 | 6.3 | 70 - 130 | 30 |
| Chlorobenzene | ND | 112 | 117 | 4.4 | 97 | 94 | 3.1 | 70 - 130 | 30 |
| Chloroethane | ND | 124 | 123 | 0.8 | 98 | 105 | 6.9 | 70 - 130 | 30 |
| Chloroform | ND | 118 | 117 | 0.9 | 99 | 97 | 2.0 | 70 - 130 | 30 |
| Chloromethane | ND | 119 | 117 | 1.7 | 97 | 99 | 2.0 | 70 - 130 | 30 |
| cis-1,2-Dichloroethene | ND | 119 | 120 | 0.8 | 102 | 101 | 1.0 | 70 - 130 | 30 |
| cis-1,3-Dichloropropene | ND | 110 | 125 | 12.8 | 95 | 90 | 5.4 | 70 - 130 | 30 |
| Dibromochloromethane | ND | 115 | 116 | 0.9 | 98 | 96 | 2.1 | 70 - 130 | 30 |
| Dibromomethane | ND | 110 | 123 | 11.2 | 97 | 93 | 4.2 | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 112 | 109 | 2.7 | 96 | 103 | 7.0 | 70 - 130 | 30 |
| Ethylbenzene | ND | 113 | 118 | 4.3 | 100 | 96 | 4.1 | 70 - 130 | 30 |
| Hexachlorobutadiene | ND | 107 | 119 | 10.6 | 94 | 93 | 1.1 | 70 - 130 | 30 |
| Isopropylbenzene | ND | 117 | 126 | 7.4 | 101 | 99 | 2.0 | 70 - 130 | 30 |

# QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| m&p-Xylene | ND | 115 | 119 | 3.4 | 100 | 97 | 3.0 | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 106 | 104 | 1.9 | 99 | 106 | 6.8 | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 105 | 116 | 10.0 | 95 | 99 | 4.1 | 70 - 130 | 30 |
| Methylene chloride | ND | 100 | 98 | 2.0 | 81 | 85 | 4.8 | 70 - 130 | 30 |
| Naphthalene | ND | 118 | 125 | 5.8 | 95 | 104 | 9.0 | 70 - 130 | 30 |
| n-Butylbenzene | ND | 116 | 126 | 8.3 | 98 | 98 | 0.0 | 70 - 130 | 30 |
| n-Propylbenzene | ND | 120 | 129 | 7.2 | 99 | 100 | 1.0 | 70 - 130 | 30 |
| o-Xylene | ND | 124 | 128 | 3.2 | 102 | 98 | 4.0 | 70 - 130 | 30 |
| p-Isopropyltoluene | ND | 120 | 128 | 6.5 | 101 | 99 | 2.0 | 70 - 130 | 30 |
| sec-Butylbenzene | ND | 116 | 123 | 5.9 | 101 | 100 | 1.0 | 70 - 130 | 30 |
| Styrene | ND | 122 | 125 | 2.4 | 103 | 101 | 2.0 | 70 - 130 | 30 |
| tert-Butylbenzene | ND | 118 | 125 | 5.8 | 102 | 99 | 3.0 | 70 - 130 | 30 |
| Tetrachloroethene | ND | 113 | 118 | 4.3 | 97 | 93 | 4.2 | 70 - 130 | 30 |
| Tetrahydrofuran (THF) | ND | 108 | 108 | 0.0 | 96 | 96 | 0.0 | 70 - 130 | 30 |
| Toluene | ND | 110 | 125 | 12.8 | 100 | 94 | 6.2 | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 122 | 124 | 1.6 | 100 | 103 | 3.0 | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 112 | 124 | 10.2 | 94 | 90 | 4.3 | 70 - 130 | 30 |
| trans-1,4-dichloro-2-butene | ND | 112 | 117 | 4.4 | 91 | 88 | 3.4 | 70 - 130 | 30 |
| Trichloroethene | ND | 118 | 119 | 0.8 | 94 | 94 | 0.0 | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 127 | 126 | 0.8 | 96 | 105 | 9.0 | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 120 | 118 | 1.7 | 94 | 107 | 12.9 | 70 - 130 | 30 |
| Vinyl chloride | ND | 121 | 122 | 0.8 | 99 | 103 | 4.0 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 101 | 100 | 99 | 1.0 | 100 | 100 | 0.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 86 | 98 | 102 | 4.0 | 102 | 100 | 2.0 | 70 - 130 | 30 |
| % Dibromofluoromethane | 99 | 106 | 102 | 3.8 | 100 | 101 | 1.0 | 70 - 130 | 30 |
| % Toluene-d8 | 98 | 97 | 106 | 8.9 | 102 | 99 | 3.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 223621, QC Sample No: BD47930 (BD47883, BD47884)

## Semivolatiles - Ground Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4,5-Tetrachlorobenzene | ND | 81 | 78 | 3.8 | | | | 30 - 130 | 20 | |
| 1,2,4-Trichlorobenzene | ND | 76 | 73 | 4.0 | | | | 30 - 130 | 20 | |
| 1,2-Dichlorobenzene | ND | 75 | 77 | 2.6 | | | | 30 - 130 | 20 | |
| 1,2-Diphenylhydrazine | ND | 87 | 84 | 3.5 | | | | 30 - 130 | 20 | |
| 1,3-Dichlorobenzene | ND | 73 | 77 | 5.3 | | | | 30 - 130 | 20 | |
| 1,4-Dichlorobenzene | ND | 73 | 75 | 2.7 | | | | 30 - 130 | 20 | |
| 2,4,5-Trichlorophenol | ND | 89 | 87 | 2.3 | | | | 30 - 130 | 20 | |
| 2,4,6-Trichlorophenol | ND | 78 | 77 | 1.3 | | | | 30 - 130 | 20 | |
| 2,4-Dichlorophenol | ND | 82 | 80 | 2.5 | | | | 30 - 130 | 20 | |
| 2,4-Dimethylphenol | ND | 51 | 51 | 0.0 | | | | 30 - 130 | 20 | |
| 2,4-Dinitrophenol | ND | 69 | 49 | 33.9 | | | | 30 - 130 | 20 | r |
| 2,4-Dinitrotoluene | ND | 82 | 80 | 2.5 | | | | 30 - 130 | 20 | |
| 2,6-Dinitrotoluene | ND | 78 | 80 | 2.5 | | | | 30 - 130 | 20 | |
| 2-Chloronaphthalene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| 2-Chlorophenol | ND | 73 | 71 | 2.8 | | | | 30 - 130 | 20 | |
| 2-Methylnaphthalene | ND | 80 | 77 | 3.8 | | | | 30 - 130 | 20 | |
| 2-Methylphenol (o-cresol) | ND | 71 | 70 | 1.4 | | | | 30 - 130 | 20 | |
| 2-Nitroaniline | ND | 125 | 132 | 5.4 | | | | 30 - 130 | 20 | I |
| 2-Nitrophenol | ND | 79 | 77 | 2.6 | | | | 30 - 130 | 20 | |
| 3&4-Methylphenol (m&p-cresol) | ND | 73 | 76 | 4.0 | | | | 30 - 130 | 20 | |
| 3,3'-Dichlorobenzidine | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| 3-Nitroaniline | ND | 71 | 81 | 13.2 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | 87 | 73 | 17.5 | | | | 30 - 130 | 20 | |
| 4-Bromophenyl phenyl ether | ND | 85 | 88 | 3.5 | | | | 30 - 130 | 20 | |
| 4-Chloro-3-methylphenol | ND | 82 | 80 | 2.5 | | | | 30 - 130 | 20 | |
| 4-Chloroaniline | ND | 35 | 52 | 39.1 | | | | 30 - 130 | 20 | r |
| 4-Chlorophenyl phenyl ether | ND | 87 | 82 | 5.9 | | | | 30 - 130 | 20 | |
| 4-Nitroaniline | ND | 88 | 84 | 4.7 | | | | 30 - 130 | 20 | |
| 4-Nitrophenol | ND | 72 | 60 | 18.2 | | | | 30 - 130 | 20 | |
| Acenaphthene | ND | 83 | 82 | 1.2 | | | | 30 - 130 | 20 | |
| Acenaphthylene | ND | 81 | 78 | 3.8 | | | | 30 - 130 | 20 | |
| Acetophenone | ND | 85 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| Aniline | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Anthracene | ND | 82 | 81 | 1.2 | | | | 30 - 130 | 20 | |
| Benz(a)anthracene | ND | 84 | 85 | 1.2 | | | | 30 - 130 | 20 | |
| Benzidine | ND | N/A | N/A | NC | | | | 10 - 130 | 20 | |
| Benzo(a)pyrene | ND | 75 | 73 | 2.7 | | | | 30 - 130 | 20 | |
| Benzo(b)fluoranthene | ND | 88 | 83 | 5.8 | | | | 30 - 130 | 20 | |
| Benzo(ghi)perylene | ND | 84 | 82 | 2.4 | | | | 30 - 130 | 20 | |
| Benzo(k)fluoranthene | ND | 83 | 88 | 5.8 | | | | 30 - 130 | 20 | |
| Benzoic acid | ND | N/A | N/A | NC | | | | 30 - 130 | 20 | |
| Benzyl butyl phthalate | ND | 91 | 101 | 10.4 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethoxy)methane | ND | 64 | 62 | 3.2 | | | | 30 - 130 | 20 | |
| Bis(2-chloroethyl)ether | ND | 111 | 95 | 15.5 | | | | 30 - 130 | 20 | |
| Bis(2-chloroisopropyl)ether | ND | 80 | 81 | 1.2 | | | | 30 - 130 | 20 | |
| Bis(2-ethylhexyl)phthalate | ND | 95 | 109 | 13.7 | | | | 30 - 130 | 20 | |
| Carbazole | ND | 123 | 120 | 2.5 | | | | 30 - 130 | 20 | |
| Chrysene | ND | 90 | 90 | 0.0 | | | | 30 - 130 | 20 | |
| Dibenz(a,h)anthracene | ND | 85 | 83 | 2.4 | | | | 30 - 130 | 20 | |
| Dibenzofuran | ND | 81 | 79 | 2.5 | | | | 30 - 130 | 20 | |
| Diethyl phthalate | ND | 89 | 91 | 2.2 | | | | 30 - 130 | 20 | |
| Dimethylphthalate | ND | 85 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| Di-n-butylphthalate | ND | 94 | 100 | 6.2 | | | | 30 - 130 | 20 | |
| Di-n-octylphthalate | ND | 93 | 101 | 8.2 | | | | 30 - 130 | 20 | |
| Fluoranthene | ND | 83 | 81 | 2.4 | | | | 30 - 130 | 20 | |
| Fluorene | ND | 86 | 82 | 4.8 | | | | 30 - 130 | 20 | |
| Hexachlorobenzene | ND | 88 | 96 | 8.7 | | | | 30 - 130 | 20 | |
| Hexachlorobutadiene | ND | 78 | 73 | 6.6 | | | | 30 - 130 | 20 | |
| Hexachlorocyclopentadiene | ND | 49 | 44 | 10.8 | | | | 30 - 130 | 20 | |
| Hexachloroethane | ND | 77 | 79 | 2.6 | | | | 30 - 130 | 20 | |
| Indeno(1,2,3-cd)pyrene | ND | 86 | 82 | 4.8 | | | | 30 - 130 | 20 | |
| Isophorone | ND | 85 | 86 | 1.2 | | | | 30 - 130 | 20 | |
| Naphthalene | ND | 84 | 84 | 0.0 | | | | 30 - 130 | 20 | |
| Nitrobenzene | ND | 80 | 80 | 0.0 | | | | 30 - 130 | 20 | |
| N-Nitrosodimethylamine | ND | 62 | 64 | 3.2 | | | | 30 - 130 | 20 | |
| N-Nitrosodi-n-propylamine | ND | 93 | 94 | 1.1 | | | | 30 - 130 | 20 | |
| N-Nitrosodiphenylamine | ND | 92 | 87 | 5.6 | | | | 30 - 130 | 20 | |
| Pentachloronitrobenzene | ND | 87 | 88 | 1.1 | | | | 30 - 130 | 20 | |
| Pentachlorophenol | ND | 84 | 87 | 3.5 | | | | 30 - 130 | 20 | |
| Phenanthrene | ND | 85 | 85 | 0.0 | | | | 30 - 130 | 20 | |
| Phenol | ND | 62 | 61 | 1.6 | | | | 30 - 130 | 20 | |
| Pyrene | ND | 84 | 80 | 4.9 | | | | 30 - 130 | 20 | |
| Pyridine | ND | <5 | 28 | NC | | | | 30 - 130 | 20 | I |
| % 2,4,6-Tribromophenol | 87 | 87 | 92 | 5.6 | | | | 15 - 130 | 20 | |
| % 2-Fluorobiphenyl | 74 | 79 | 78 | 1.3 | | | | 30 - 130 | 20 | |

# QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|
| % 2-Fluorophenol | 68 | 52 | 52 | 0.0 | | | | 15 - 130 | 20 | |
| % Nitrobenzene-d5 | 84 | 76 | 78 | 2.6 | | | | 30 - 130 | 20 | |
| % Phenol-d5 | 45 | 58 | 58 | 0.0 | | | | 15 - 130 | 20 | |
| % Terphenyl-d14 | 80 | 87 | 82 | 5.9 | | | | 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 223861, QC Sample No: BD48442 (BD47883 (2X) , BD47884 (2X) )

## Volatiles - Ground Water

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 108 | 109 | 0.9 | 99 | 97 | 2.0 | 70 - 130 | 30 | |
| 1,1,1-Trichloroethane | ND | 109 | 108 | 0.9 | 106 | 98 | 7.8 | 70 - 130 | 30 | |
| 1,1,2,2-Tetrachloroethane | ND | 106 | 106 | 0.0 | 95 | 95 | 0.0 | 70 - 130 | 30 | |
| 1,1,2-Trichloroethane | ND | 114 | 117 | 2.6 | 99 | 100 | 1.0 | 70 - 130 | 30 | |
| 1,1-Dichloroethane | ND | 113 | 112 | 0.9 | 104 | 101 | 2.9 | 70 - 130 | 30 | |
| 1,1-Dichloroethene | ND | 119 | 116 | 2.6 | 105 | 111 | 5.6 | 70 - 130 | 30 | |
| 1,1-Dichloropropene | ND | 105 | 108 | 2.8 | 106 | 99 | 6.8 | 70 - 130 | 30 | |
| 1,2,3-Trichlorobenzene | ND | 114 | 115 | 0.9 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,2,3-Trichloropropane | ND | 107 | 108 | 0.9 | 99 | 99 | 0.0 | 70 - 130 | 30 | |
| 1,2,4-Trichlorobenzene | ND | 111 | 114 | 2.7 | 96 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,2,4-Trimethylbenzene | ND | 114 | 116 | 1.7 | 103 | 100 | 3.0 | 70 - 130 | 30 | |
| 1,2-Dibromo-3-chloropropane | ND | 116 | 118 | 1.7 | 97 | 105 | 7.9 | 70 - 130 | 30 | |
| 1,2-Dibromoethane | ND | 108 | 112 | 3.6 | 97 | 101 | 4.0 | 70 - 130 | 30 | |
| 1,2-Dichlorobenzene | ND | 110 | 112 | 1.8 | 99 | 97 | 2.0 | 70 - 130 | 30 | |
| 1,2-Dichloroethane | ND | 103 | 106 | 2.9 | 100 | 100 | 0.0 | 70 - 130 | 30 | |
| 1,2-Dichloropropane | ND | 107 | 109 | 1.9 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| 1,3,5-Trimethylbenzene | ND | 113 | 114 | 0.9 | 104 | 100 | 3.9 | 70 - 130 | 30 | |
| 1,3-Dichlorobenzene | ND | 112 | 112 | 0.0 | 98 | 97 | 1.0 | 70 - 130 | 30 | |
| 1,3-Dichloropropane | ND | 110 | 113 | 2.7 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| 1,4-Dichlorobenzene | ND | 111 | 111 | 0.0 | 96 | 96 | 0.0 | 70 - 130 | 30 | |
| 2,2-Dichloropropane | ND | 79 | 78 | 1.3 | 47 | 49 | 4.2 | 70 - 130 | 30 | m |
| 2-Chlorotoluene | ND | 111 | 113 | 1.8 | 98 | 96 | 2.1 | 70 - 130 | 30 | |
| 2-Hexanone | ND | 110 | 110 | 0.0 | 98 | 95 | 3.1 | 70 - 130 | 30 | |
| 2-Isopropyltoluene | ND | 110 | 110 | 0.0 | 104 | 101 | 2.9 | 70 - 130 | 30 | |
| 4-Chlorotoluene | ND | 110 | 111 | 0.9 | 101 | 98 | 3.0 | 70 - 130 | 30 | |
| 4-Methyl-2-pentanone | ND | 108 | 112 | 3.6 | 100 | 107 | 6.8 | 70 - 130 | 30 | |
| Acetone | ND | 91 | 88 | 3.4 | 88 | 87 | 1.1 | 70 - 130 | 30 | |
| Acrylonitrile | ND | 114 | 115 | 0.9 | 97 | 104 | 7.0 | 70 - 130 | 30 | |
| Benzene | ND | 106 | 108 | 1.9 | 101 | 99 | 2.0 | 70 - 130 | 30 | |
| Bromobenzene | ND | 109 | 110 | 0.9 | 97 | 95 | 2.1 | 70 - 130 | 30 | |
| Bromochloromethane | ND | 112 | 114 | 1.8 | 102 | 98 | 4.0 | 70 - 130 | 30 | |
| Bromodichloromethane | ND | 108 | 110 | 1.8 | 99 | 96 | 3.1 | 70 - 130 | 30 | |
| Bromoform | ND | 115 | 119 | 3.4 | 103 | 104 | 1.0 | 70 - 130 | 30 | |
| Bromomethane | ND | 134 | 137 | 2.2 | 67 | 99 | 38.6 | 70 - 130 | 30 | l,m,r |
| Carbon Disulfide | ND | 108 | 106 | 1.9 | 106 | 109 | 2.8 | 70 - 130 | 30 | |
| Carbon tetrachloride | ND | 104 | 106 | 1.9 | 102 | 97 | 5.0 | 70 - 130 | 30 | |
| Chlorobenzene | ND | 110 | 111 | 0.9 | 100 | 97 | 3.0 | 70 - 130 | 30 | |
| Chloroethane | ND | 114 | 113 | 0.9 | 102 | 107 | 4.8 | 70 - 130 | 30 | |
| Chloroform | ND | 113 | 111 | 1.8 | 103 | 99 | 4.0 | 70 - 130 | 30 | |
| Chloromethane | ND | 110 | 108 | 1.8 | 99 | 103 | 4.0 | 70 - 130 | 30 | |
| cis-1,2-Dichloroethene | ND | 116 | 118 | 1.7 | 104 | 102 | 1.9 | 70 - 130 | 30 | |
| cis-1,3-Dichloropropene | ND | 103 | 106 | 2.9 | 86 | 88 | 2.3 | 70 - 130 | 30 | |
| Dibromochloromethane | ND | 114 | 114 | 0.0 | 101 | 99 | 2.0 | 70 - 130 | 30 | |

# QA/QC Data

SDG I.D.: GBD47883

| Parameter | Blank | LCS % | LCSD % | LCS RPD | MS % | MSD % | MS RPD | % Rec Limits | % RPD Limits |
|---|---|---|---|---|---|---|---|---|---|
| Dibromomethane | ND | 106 | 112 | 5.5 | 98 | 99 | 1.0 | 70 - 130 | 30 |
| Dichlorodifluoromethane | ND | 103 | 102 | 1.0 | 106 | 98 | 7.8 | 70 - 130 | 30 |
| Ethylbenzene | ND | 110 | 112 | 1.8 | 104 | 100 | 3.9 | 70 - 130 | 30 |
| Hexachlorobutadiene | ND | 100 | 102 | 2.0 | 98 | 93 | 5.2 | 70 - 130 | 30 |
| Isopropylbenzene | ND | 114 | 115 | 0.9 | 104 | 99 | 4.9 | 70 - 130 | 30 |
| m&p-Xylene | ND | 111 | 113 | 1.8 | 103 | 99 | 4.0 | 70 - 130 | 30 |
| Methyl ethyl ketone | ND | 107 | 104 | 2.8 | 106 | 105 | 0.9 | 70 - 130 | 30 |
| Methyl t-butyl ether (MTBE) | ND | 103 | 107 | 3.8 | 93 | 103 | 10.2 | 70 - 130 | 30 |
| Methylene chloride | ND | 95 | 95 | 0.0 | 86 | 86 | 0.0 | 70 - 130 | 30 |
| Naphthalene | ND | 114 | 119 | 4.3 | 96 | 102 | 6.1 | 70 - 130 | 30 |
| n-Butylbenzene | ND | 112 | 113 | 0.9 | 102 | 95 | 7.1 | 70 - 130 | 30 |
| n-Propylbenzene | ND | 117 | 118 | 0.9 | 104 | 99 | 4.9 | 70 - 130 | 30 |
| o-Xylene | ND | 120 | 121 | 0.8 | 106 | 102 | 3.8 | 70 - 130 | 30 |
| p-Isopropyltoluene | ND | 115 | 116 | 0.9 | 105 | 98 | 6.9 | 70 - 130 | 30 |
| sec-Butylbenzene | ND | 111 | 111 | 0.0 | 106 | 100 | 5.8 | 70 - 130 | 30 |
| Styrene | ND | 118 | 120 | 1.7 | 106 | 103 | 2.9 | 70 - 130 | 30 |
| tert-Butylbenzene | ND | 114 | 116 | 1.7 | 105 | 101 | 3.9 | 70 - 130 | 30 |
| Tetrachloroethene | ND | 108 | 109 | 0.9 | 105 | 96 | 9.0 | 70 - 130 | 30 |
| Tetrahydrofuran (THF) | ND | 107 | 107 | 0.0 | 95 | 97 | 2.1 | 70 - 130 | 30 |
| Toluene | ND | 107 | 109 | 1.9 | 98 | 96 | 2.1 | 70 - 130 | 30 |
| trans-1,2-Dichloroethene | ND | 116 | 115 | 0.9 | 102 | 104 | 1.9 | 70 - 130 | 30 |
| trans-1,3-Dichloropropene | ND | 102 | 103 | 1.0 | 87 | 89 | 2.3 | 70 - 130 | 30 |
| trans-1,4-dichloro-2-butene | ND | 97 | 99 | 2.0 | 78 | 79 | 1.3 | 70 - 130 | 30 |
| Trichloroethene | ND | 116 | 115 | 0.9 | 102 | 99 | 3.0 | 70 - 130 | 30 |
| Trichlorofluoromethane | ND | 116 | 115 | 0.9 | 106 | 105 | 0.9 | 70 - 130 | 30 |
| Trichlorotrifluoroethane | ND | 107 | 106 | 0.9 | 104 | 102 | 1.9 | 70 - 130 | 30 |
| Vinyl chloride | ND | 111 | 111 | 0.0 | 101 | 103 | 2.0 | 70 - 130 | 30 |
| % 1,2-dichlorobenzene-d4 | 100 | 99 | 101 | 2.0 | 100 | 99 | 1.0 | 70 - 130 | 30 |
| % Bromofluorobenzene | 88 | 101 | 101 | 0.0 | 105 | 102 | 2.9 | 70 - 130 | 30 |
| % Dibromofluoromethane | 100 | 102 | 101 | 1.0 | 98 | 95 | 3.1 | 70 - 130 | 30 |
| % Toluene-d8 | 96 | 97 | 100 | 3.0 | 96 | 97 | 1.0 | 70 - 130 | 30 |

Comment:

Additional 8260 criteria: 10% of 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 22, 2013

# Sample Criteria Exceedences Report

## GBD47883 - EBC



Requested 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.

**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 22, 2013**

**SDG I.D.: GBD47883**

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

# NY/NJ CHAIN OF CUSTODY RECORD

**PHOENIX** Environmental Laboratories, Inc.

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

Temp 4 (on ice) Pg 1 of 1

**Data Delivery:**
☐ Fax #:
☒ Email: csosik@ebcinc.ny.com

Customer: EBC
Address: 1808 Middle Country Rd Ridge NY
Project: 212 N 9th St
Report to: EBC
Invoice to: EBC
Project P.O:
Phone #: 631 504 6000
Fax #:

**Client Sample - Information - Identification**
Sampler's Signature: [signature] Date: 3-14-13

**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 8260 | SVOC 8270 | Pest/PCBs | TAL Metals | Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O | GL Soil container ( ) oz | GL Soil container ( ) oz | 40 ml VOA Vial [ ] As is [X] HCl | GL Amber 1000ml [X] As is [ ] H2SO4 | PL As is [X] 250ml [ ] 500ml [ ] 1000ml | PL H2SO4 [ ] 250ml [ ] 500ml | PL HNO3 250ml | PL NaOH 250ml | Bacteria Bottle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47883 | MW2 | gw | 3-14 | 1245 | x | x | x | x | | | | 3 | 3 | 1 | | 1 | | |
| 47884 | gw Duplicate | gw | 3-14 | | x | x | x | x | | | | 3 | 2 | 1 | | 1 | | |
| 47885 | trip Blank | w | | | | | | | | | | | | | | | | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 3-15-13 | 1210 |
| [signature] | [signature] | 3-15-13 | 1655 |

**Comments, Special Requirements or Regulations:**
2 DAY TAT

**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: NY

PHOENIX
Environmental Laboratories, Inc.

**Wednesday, March 20, 2013**

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

**Project ID: 212 N 9TH ST., BROOKLYN**
**Sample ID#s: BD47886 - BD47889**

**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
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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 20, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | KW | 03/14/13 | 14:20 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47886
Phoenix ID: BD47886

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG1

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 0.41 | *0.183* | 2.24 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.26 | *0.204* | 1.28 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 0.33 | *0.166* | 1.98 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Acetone | 116 | *0.421* | 275 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzene | 6.85 | *0.313* | 21.9 | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG1

Phoenix I.D.: BD47886

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Disulfide | 5.89 | *0.321* | 18.3 | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.1 | *0.040* | 0.629 | *0.25* | 03/18/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroform | 0.48 | *0.205* | 2.34 | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Cyclohexane | 0.52 | *0.291* | 1.79 | *1.00* | 03/18/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 11.4 | *0.202* | 56.3 | *1.00* | 03/18/13 | KCA | TO15 | |
| Ethanol | 16.8 | *0.531* | 31.6 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethylbenzene | 2.31 | *0.230* | 10.0 | *1.00* | 03/18/13 | KCA | TO15 | |
| Heptane | 7.73 | *0.244* | 31.6 | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexane | 6.72 | *0.284* | 23.7 | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| m,p-Xylene | 6.54 | *0.230* | 28.4 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 2.15 | *0.339* | 6.34 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Methylene Chloride | 0.49 | *0.288* | 1.70 | *1.00* | 03/18/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| o-Xylene | 1.6 | *0.230* | 6.94 | *1.00* | 03/18/13 | KCA | TO15 | |
| Propylene | 8.03 | *0.581* | 13.8 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Tetrachloroethene | 1.18 | *0.037* | 8.00 | *0.25* | 03/18/13 | KCA | TO15 | |
| Tetrahydrofuran | 0.35 | *0.339* | 1.03 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Toluene | 27.3 | *0.266* | 103 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichloroethene | 0.11 | *0.047* | 0.591 | *0.25* | 03/18/13 | KCA | TO15 | |
| Trichlorofluoromethane | 35.5 | *0.178* | 199 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 03/18/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 110 | *%* | 110 | *%* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN

Client ID: SG1

Phoenix I.D.: BD47886

| 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 20, 2013**

**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 20, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | KW | 03/14/13 | 14:25 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47886
Phoenix ID: BD47887

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG3

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 0.74 | *0.183* | 4.03 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.43 | *0.204* | 2.11 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 0.32 | *0.166* | 1.92 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.27 | *0.204* | 1.33 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.25 | *0.244* | 1.02 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acetone | 114 | *0.421* | 271 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzene | 4.75 | *0.313* | 15.2 | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG3

Phoenix I.D.: BD47887

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Disulfide | 2.9 | *0.321* | 9.02 | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.09 | *0.040* | 0.566 | *0.25* | 03/18/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroform | ND | *0.205* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloromethane | 0.69 | *0.484* | 1.42 | *1.00* | 03/18/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 0.47 | *0.202* | 2.32 | *1.00* | 03/18/13 | KCA | TO15 | |
| Ethanol | 19.8 | *0.531* | 37.3 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethylbenzene | 3.58 | *0.230* | 15.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Heptane | 5.25 | *0.244* | 21.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexane | 5.46 | *0.284* | 19.2 | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| m,p-Xylene | 11.4 | *0.230* | 49.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 2.8 | *0.339* | 8.25 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Methylene Chloride | 0.35 | *0.288* | 1.22 | *1.00* | 03/18/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| o-Xylene | 2.66 | *0.230* | 11.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Propylene | 2.85 | *0.581* | 4.90 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Tetrachloroethene | 0.41 | *0.037* | 2.78 | *0.25* | 03/18/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Toluene | 29.5 | *0.266* | 111 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichloroethene | 0.07 | *0.047* | 0.376 | *0.25* | 03/18/13 | KCA | TO15 | |
| Trichlorofluoromethane | 11.1 | *0.178* | 62.3 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 03/18/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 109 | *%* | 109 | *%* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN

Phoenix I.D.: BD47887

Client ID: SG3

| 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 20, 2013**

**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 20, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | KW | 03/14/13 | 14:10 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47886
Phoenix ID: BD47888

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG4

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 0.41 | *0.183* | 2.24 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.33 | *0.204* | 1.62 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 0.29 | *0.166* | 1.74 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Acetone | 62.3 | *0.421* | 148 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzene | 5.71 | *0.313* | 18.2 | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG4

Phoenix I.D.: BD47888

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Disulfide | 4.35 | *0.321* | 13.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.09 | *0.040* | 0.566 | *0.25* | 03/18/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroform | 2.01 | *0.205* | 9.81 | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Cyclohexane | 5.26 | *0.291* | 18.1 | *1.00* | 03/18/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 34.3 | *0.202* | 170 | *1.00* | 03/18/13 | KCA | TO15 | |
| Ethanol | 41.9 | *0.531* | 78.9 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethyl acetate | 3.85 | *0.278* | 13.9 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethylbenzene | 2.29 | *0.230* | 9.94 | *1.00* | 03/18/13 | KCA | TO15 | |
| Heptane | 5.54 | *0.244* | 22.7 | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexane | 7.64 | *0.284* | 26.9 | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| m,p-Xylene | 7.3 | *0.230* | 31.7 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | ND | *0.339* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Methylene Chloride | ND | *0.288* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| o-Xylene | 1.7 | *0.230* | 7.38 | *1.00* | 03/18/13 | KCA | TO15 | |
| Propylene | 58.7 | *0.581* | 101 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Tetrachloroethene | 0.24 | *0.037* | 1.63 | *0.25* | 03/18/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Toluene | 19.2 | *0.266* | 72.3 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichloroethene | 0.08 | *0.047* | 0.430 | *0.25* | 03/18/13 | KCA | TO15 | |
| Trichlorofluoromethane | 60.6 | *0.178* | 340 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 03/18/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 111 | *%* | 111 | *%* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN

Client ID: SG4

Phoenix I.D.: BD47888

| 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 20, 2013**

**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 20, 2013

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

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | KW | 03/14/13 | 14:15 |
| Location Code: | EBC | Received by: | LB | 03/15/13 | 16:55 |
| Rush Request: | 48 Hour | Analyzed by: | see "By" below | | |
| P.O.#: | | | | | |

## Laboratory Data

SDG ID: GBD47886
Phoenix ID: BD47889

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG5

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 1,1,1-Trichloroethane | 1.07 | *0.183* | 5.83 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1,2-Trichloroethane | ND | *0.183* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,1-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2,4-Trimethylbenzene | 0.77 | *0.204* | 3.78 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichloroethane | ND | *0.247* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-dichloropropane | ND | *0.216* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Butadiene | ND | *0.452* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,3-Dichlorobenzene | 0.3 | *0.166* | 1.80 | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dichlorobenzene | ND | *0.166* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 1,4-Dioxane | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| 2-Hexanone(MBK) | ND | *0.244* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Ethyltoluene | 0.32 | *0.204* | 1.57 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| 4-Methyl-2-pentanone(MIBK) | 0.27 | *0.244* | 1.10 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acetone | 108 | *0.421* | 256 | *1.00* | 03/18/13 | KCA | TO15 | |
| Acrylonitrile | ND | *0.461* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzene | 3.64 | *0.313* | 11.6 | *1.00* | 03/18/13 | KCA | TO15 | |
| Benzyl chloride | ND | *0.193* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromodichloromethane | ND | *0.149* | ND | *1.00* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN
Client ID: SG5

Phoenix I.D.: BD47889

| Parameter | ppbv Result | ppbv RL | ug/m3 Result | ug/m3 RL | Date/Time | By | Reference | |
|---|---|---|---|---|---|---|---|---|
| Bromoform | ND | *0.097* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Bromomethane | ND | *0.258* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Disulfide | 5.63 | *0.321* | 17.5 | *1.00* | 03/18/13 | KCA | TO15 | |
| Carbon Tetrachloride | 0.09 | *0.040* | 0.566 | *0.25* | 03/18/13 | KCA | TO15 | |
| Chlorobenzene | ND | *0.217* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroethane | ND | *0.379* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloroform | 1.61 | *0.205* | 7.86 | *1.00* | 03/18/13 | KCA | TO15 | |
| Chloromethane | ND | *0.484* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Cis-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| cis-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Cyclohexane | ND | *0.291* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dibromochloromethane | ND | *0.117* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Dichlorodifluoromethane | 20.4 | *0.202* | 101 | *1.00* | 03/18/13 | KCA | TO15 | |
| Ethanol | 12.9 | *0.531* | 24.3 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethyl acetate | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Ethylbenzene | 3.56 | *0.230* | 15.4 | *1.00* | 03/18/13 | KCA | TO15 | |
| Heptane | 3.51 | *0.244* | 14.4 | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexachlorobutadiene | ND | *0.094* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Hexane | 3.7 | *0.284* | 13.0 | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylalcohol | ND | *0.407* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Isopropylbenzene | ND | *0.204* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| m,p-Xylene | 12.7 | *0.230* | 55.1 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl Ethyl Ketone | 4.89 | *0.339* | 14.4 | *1.00* | 03/18/13 | KCA | TO15 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Methylene Chloride | 0.43 | *0.288* | 1.49 | *1.00* | 03/18/13 | KCA | TO15 | |
| n-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| o-Xylene | 3.23 | *0.230* | 14.0 | *1.00* | 03/18/13 | KCA | TO15 | |
| Propylene | 6.73 | *0.581* | 11.6 | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| sec-Butylbenzene | ND | *0.182* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Styrene | ND | *0.235* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Tetrachloroethene | 0.57 | *0.037* | 3.86 | *0.25* | 03/18/13 | KCA | TO15 | |
| Tetrahydrofuran | ND | *0.339* | ND | *1.00* | 03/18/13 | KCA | TO15 | 1 |
| Toluene | 19.5 | *0.266* | 73.4 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| trans-1,3-Dichloropropene | ND | *0.220* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichloroethene | 0.11 | *0.047* | 0.591 | *0.25* | 03/18/13 | KCA | TO15 | |
| Trichlorofluoromethane | 33.3 | *0.178* | 187 | *1.00* | 03/18/13 | KCA | TO15 | |
| Trichlorotrifluoroethane | ND | *0.130* | ND | *1.00* | 03/18/13 | KCA | TO15 | |
| Vinyl Chloride | ND | *0.098* | ND | *0.25* | 03/18/13 | KCA | TO15 | |
| **QA/QC Surrogates** | | | | | | | | |
| % Bromofluorobenzene | 111 | *%* | 111 | *%* | 03/18/13 | KCA | TO15 | |

Project ID: 212 N 9TH ST., BROOKLYN

Client ID: SG5

Phoenix I.D.: BD47889

| 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 20, 2013**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

March 20, 2013

## QA/QC Data

SDG I.D.: GBD47886

QA/QC Batch 223841, QC Sample No: BD47886 (BD47886, BD47887, BD47888, BD47889)

### 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 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,1-Trichloroethane | ND | ND | 105 | 2.40 | 2.24 | 0.44 | 0.41 | 7.1 | 70 - 130 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1,2-Trichloroethane | ND | ND | 119 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,1-Dichloroethane | ND | ND | 97 | 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 | 88 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2,4-Trimethylbenzene | ND | ND | 102 | 1.42 | 1.33 | 0.29 | 0.27 | 7.1 | 70 - 130 | 20 |
| 1,2-Dibromoethane(EDB) | ND | ND | 122 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichlorobenzene | ND | ND | 103 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichloroethane | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-dichloropropane | ND | ND | 110 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,2-Dichlorotetrafluoroethane | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3,5-Trimethylbenzene | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3-Butadiene | ND | ND | 85 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,3-Dichlorobenzene | ND | ND | 106 | 1.92 | 1.80 | 0.32 | 0.3 | 6.5 | 70 - 130 | 20 |
| 1,4-Dichlorobenzene | ND | ND | 103 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 1,4-Dioxane | ND | ND | 113 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 2-Hexanone(MBK) | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Ethyltoluene | ND | ND | 101 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Isopropyltoluene | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| 4-Methyl-2-pentanone(MIBK) | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Acetone | ND | ND | 97 | 264 | 271 | 111 | 114 | 2.7 | 70 - 130 | 20 |
| Acrylonitrile | ND | ND | 88 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Benzene | ND | ND | 95 | 21.9 | 21.4 | 6.85 | 6.71 | 2.1 | 70 - 130 | 20 |
| Benzyl chloride | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromodichloromethane | ND | ND | 118 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromoform | ND | ND | 116 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Bromomethane | ND | ND | 98 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Carbon Disulfide | ND | ND | 88 | 18.3 | 19.0 | 5.89 | 6.1 | 3.5 | 70 - 130 | 20 |
| Carbon Tetrachloride | ND | ND | 108 | 0.629 | 0.629 | 0.1 | 0.1 | 0.0 | 70 - 130 | 20 |
| Chlorobenzene | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroethane | ND | ND | 88 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Chloroform | ND | ND | 102 | 2.49 | 2.39 | 0.51 | 0.49 | 4.0 | 70 - 130 | 20 |
| Chloromethane | ND | ND | 84 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Cis-1,2-Dichloroethene | ND | ND | 109 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| cis-1,3-Dichloropropene | ND | ND | 122 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Cyclohexane | ND | ND | 87 | 1.79 | 1.93 | 0.52 | 0.56 | 7.4 | 70 - 130 | 20 |
| Dibromochloromethane | ND | ND | 130 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Dichlorodifluoromethane | ND | ND | 107 | 56.3 | 53.4 | 11.4 | 10.8 | 5.4 | 70 - 130 | 20 |
| Ethanol | ND | ND | 86 | 31.6 | 35.2 | 16.8 | 18.7 | 10.7 | 70 - 130 | 20 |

# QA/QC Data

SDG I.D.: GBD47886

| 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 | 86 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Ethylbenzene | ND | ND | 101 | 10.0 | 9.89 | 2.31 | 2.28 | 1.3 | 70 - 130 | 20 |
| Heptane | ND | ND | 105 | 31.6 | 28.1 | 7.73 | 6.86 | 11.9 | 70 - 130 | 20 |
| Hexachlorobutadiene | ND | ND | 80 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Hexane | ND | ND | 90 | 23.7 | 24.8 | 6.72 | 7.04 | 4.7 | 70 - 130 | 20 |
| Isopropylalcohol | ND | ND | 94 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Isopropylbenzene | ND | ND | 102 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| m,p-Xylene | ND | ND | 102 | 28.4 | 28.6 | 6.54 | 6.59 | 0.8 | 70 - 130 | 20 |
| Methyl Ethyl Ketone | ND | ND | 84 | 6.34 | 7.60 | 2.15 | 2.58 | 18.2 | 70 - 130 | 20 |
| Methyl tert-butyl ether(MTBE) | ND | ND | 97 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Methylene Chloride | ND | ND | 83 | 1.98 | 1.56 | 0.57 | 0.45 | 23.5 | 70 - 130 | 20 |
| n-Butylbenzene | ND | ND | 94 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| o-Xylene | ND | ND | 99 | 6.94 | 7.03 | 1.6 | 1.62 | 1.2 | 70 - 130 | 20 |
| Propylene | ND | ND | 83 | 13.8 | 12.7 | 8.03 | 7.41 | 8.0 | 70 - 130 | 20 |
| sec-Butylbenzene | ND | ND | 93 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Styrene | ND | ND | 100 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Tetrachloroethene | ND | ND | 125 | 8.00 | 7.05 | 1.18 | 1.04 | 12.6 | 70 - 130 | 20 |
| Tetrahydrofuran | ND | ND | 78 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Toluene | ND | ND | 113 | 103 | 93.8 | 27.3 | 24.9 | 9.2 | 70 - 130 | 20 |
| Trans-1,2-Dichloroethene | ND | ND | 93 | 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 | 125 | 0.698 | 0.537 | 0.13 | 0.1 | 26.1 | 70 - 130 | 20 |
| Trichlorofluoromethane | ND | ND | 105 | 199 | 202 | 35.5 | 36 | 1.4 | 70 - 130 | 20 |
| Trichlorotrifluoroethane | ND | ND | 104 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| Vinyl Chloride | ND | ND | 89 | ND | ND | ND | ND | NC | 70 - 130 | 20 |
| % Bromofluorobenzene | 83 | 83 | 105 | 110 | 111 | 110 | 111 | 0.9 | 70 - 130 | 20 |

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 20, 2013

Wednesday, March 20, 2013

Requested Criteria: None

State: NY

# Sample Criteria Exceedences Report

## GBD47886 - EBC

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

*** No Data to Display ***

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

# CHAIN OF CUSTODY RECORD AIR ANALYSES

Page 1 of 1

**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) 645-1102**

Data Delivery: ☐ Fax #: ☒ Email: cscosice@ebcnycny.com

| | | | | | |
|---|---|---|---|---|---|
| Report to: | EBC | Invoice to: | EBC | Project Name: | 212 N 9th St Bklyn NY |
| Address: | 1808 Middle Country Rd Ridge NY | Address: | Same | Location: | Same |
| Project Mgr: | Kevin Brousseau | P.O. # | | State: | NY |
| Phone # | 631 504 6000 | Quote # | | Sampled by: | KW |

| 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 | | | | Is Canister Returned Unused? Y/N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LAB USE ONLY | | | | | | | | | | | MATRIX | | | | ANALYSES | | | | | |
| 47886 | S91 | S91 12873 | 6 | -29 | -4 | 5041 ✓ | | 1220 | 1420 | 3-14 | -29 | -6 | | X | | | | X | | | | N |
| 47887 | S93 | ~~S93~~ 11286 | 6 | -30 | -6 | 4959 ✓ | | 1225 | 1425 | ↓ | -30 | -9 | | X | | | | X | | | | N |
| 47888 | S94 | S94 463 | 6 | -30 | -5 | 4957 ✓ | | 1210 | 1410 | ↓ | -30 | -8 | | X | | | | X | | | | N |
| 47889 | S95 | S95 13636 | 6 | -30 | -4 | 5353 | | 1215 | 1415 | ↓ | -30 | -7 | | X | | | | X | | | | N |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| [signature] | [signature] | 3-15-13 | 12:10 |
| [signature] | [signature] | 3-15-13 | 1605 |

Criteria Requested: Deliverable: RCP ☐ MCP ☐

State where samples collected: NY

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

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

* 2 DAY TAT

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

Signature: _____ Date: _____