

**78-80 THROOP AVENUE**  
**BROOKLYN, NEW YORK 11206**

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# **Remedial Investigation Report**

**OER Project # 13CVCP095K**

**Prepared for:**

The Rabsky Group, LLC  
39 Heyward Street  
Brooklyn, NY 11211

**Prepared by:**

***EBC***

***ENVIRONMENTAL BUSINESS CONSULTANTS***

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October 2012

# REMEDIAL INVESTIGATION REPORT

## TABLE OF CONTENTS

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### LIST OF ACRONYMS

### CERTIFICATION

EXECUTIVE SUMMARY .....	i
1.0 SITE BACKGROUND .....	1
1.1 Site Location and Current Usage .....	1
1.2 Proposed Redevelopment Plan .....	1
1.3 Description of Surrounding Property .....	2
2.0 SITE HISTORY .....	3
2.1 Past Uses and Ownership .....	3
2.2 Previous Investigations .....	3
2.3 Site Inspection .....	3
2.4 Areas of Concern .....	3
3.0 PROJECT MANAGEMENT .....	4
3.1 Project Organization .....	4
3.2 Health and Safety .....	4
3.3 Materials Management .....	4
4.0 REMEDIAL INVESTIGATION ACTIVITIES .....	5
4.1 Geophysical Investigation .....	5
4.2 Borings and Monitoring Wells .....	5
4.3 Sample Collection and Chemical Analysis .....	6
5.0 ENVIRONMENTAL EVALUATION .....	11
5.1 Geological and Hydrogeological Conditions .....	11
5.2 Soil Chemistry .....	11
5.3 Groundwater Chemistry .....	12
5.4 Soil Vapor Chemistry .....	13
5.5 Prior Activity .....	13
5.6 Impediments to Remedial Action .....	13

# REMEDIAL INVESTIGATION REPORT

## TABLE OF CONTENTS

---

### ***TABLES***

---

Table 1 - Construction Details for Soil Borings and Monitoring Wells  
Table 2 - Soil Analytical Results (VOCs)  
Table 3 - Soil Analytical Results (SVOCs)  
Table 4 - Soil Analytical Results (Pesticides/PCBs)  
Table 5 - Soil Analytical Results (Metals)  
Table 6 - Groundwater Analytical Results (VOCs)  
Table 7 - Groundwater Analytical Results (SVOCs)  
Table 8 - Groundwater Analytical Results (Pesticides/PCBs)  
Table 9 - Groundwater Analytical Results (Total Metals)  
Table 11 - Soil Gas Analytical Results (VOCs)  
Table 12 - Depth to Groundwater Readings

### ***FIGURES***

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Figure 1 - Site Location Map  
Figure 2 - Site Boundary Map  
Figure 3 - Redevelopment Plan  
Figure 4 - Surrounding Land Use  
Figure 5 - Site Plan  
Figure 6 - Soil Exceedences  
Figure 7 - Groundwater Exceedences  
Figure 8 - Soil Vapor Detections

### ***APPENDICES***

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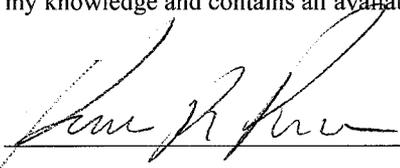
Appendix A - Phase I Report  
Appendix B - Soil Boring Logs  
Appendix C - Groundwater Sampling Logs  
Appendix D - Soil Gas Sampling Logs  
Appendix E - Laboratory Reports in Digital Format

## 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, Kevin Brussee, 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 78 Throop Avenue, Brooklyn, NY, (NYC VCP Site No. 13CVCP095K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

  
Qualified Environmental Professional

10/31/2012  
Date

KEVIN BRUSSEE - EBC  
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 78-80 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lots 32 and 33 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 4,952-square feet and is bounded by a one-story commercial building to the north (Block 2266, Lots 30 and 31), a vacant lot to the south (Block 2266, Lot 36), Throop Avenue to the east, and a vacant lot to the west (Block 2266, Lot 36). A map of the site boundary is shown in Figure 2. Currently, the Site is a vacant lot surrounded by an 8 foot high chain link fence. The vacant lot is uncapped, and overgrown with weeds.

### Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of two identical 4-story apartment buildings. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A. R7A is a contextual district that allows residential and community facility buildings. The proposed use is consistent with existing zoning for the property.

The 25ft wide tax lot (Lot 33) and the 24.52 ft wide tax lot (Lot 32) will be developed with identical 25 ft wide residential four-story masonry buildings. Both buildings will have a full cellar beneath the footprint of each building. Both buildings will extend approximately 65 feet. Therefore, the gross building square footage for each building is 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind each building, which will be approximately 35 feet deep. The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar for each building will consist of residential space. Each building will consist of three residential units.



Excavation for each new building and rear cellar-level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings' cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet long (length) and 8 feet (deep), a total of approximately 740 cubic yards (1000 tons) of soil will require excavation per building. The total excavated volume of soil for the entire Site will be approximately 1,500 cubic yards (2,200 tons). The slab and rear cellar level court yard for each building will be capped with a 1 ft 6" layer of concrete.

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

Prior to 1887, the property was developed with a bakery, livery and wagon house. The operation was closed by 1904. Sometime between 1904 and 1905 the Site was redeveloped with a 5-story mixed use commercial/residential building. The first floor was divided into two commercial spaces and the upper floors were residential. The 5-story mixed use building remained until the entire lot was demolished in 1980. The Site has remained undeveloped since, but the land was used for lumber storage until 2003. Since 2003 the Site has remained vacant.

The AOCs identified for this Site include:

Historic fill layer is present at the Site from grade to depths as great as 7 feet below grade.

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

The Rabsky Group, 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 4 soil borings across the entire project Site, and collected 8 soil samples and 1 duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 3 groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed 3 soil vapor probes around Site perimeter and collected 3 samples for chemical analysis.



## Summary of Environmental Findings

1. Elevation of the property is approximately 14 feet.
2. Depth to groundwater is approximately 10 feet at the Site.
3. Groundwater flow is generally from south to north beneath the Site.
4. Depth to bedrock is at the Site is greater than 100 feet.
5. The stratigraphy of the Site, from the surface down, consists of approximately 7 feet of historic fill underlain by a native brown sand.
6. Soil/fill samples collected during the RI showed no detectable PCBs. Seven VOCs were detected within two of the four soil samples collected at the groundwater interface (8 to 10 ft depth), but only 1,2,4-trimethylbenzene (19,000 ppb) was detected above its Unrestricted Use Soil Cleanup Objective (SCO). No VOCs were detected within the shallow soil samples, and no chlorinated VOCs were detected in any sample. Six SVOCs were detected above their respective Unrestricted Use SCOs in three shallow soil sampling locations, and of these benzo(a)anthracene, benzo(a)pyrene, and benzo(b)fluoranthene were also detected above their respective Restricted Residential SCOs. The SVOCs detected above Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five metals exceeded Unrestricted Use SCOs in shallow soil samples, and of these, barium (maximum of 515 ppm), lead (maximum of 677 ppm) and mercury (maximum of 2.54 ppm) also exceeded Restricted Residential SCOs. Pesticides including 4,4,4-DDT, 4,4,4-DDE, 4,4,4-DDD, chlordane, and dieldrin were detected within the shallow soil samples at concentrations above Unrestricted Use SCOs, but below Restricted Residential SCOs. No SVOCs, PCBs or pesticides were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.
7. Groundwater samples collected during the RI showed three chlorinated VOCs, including tetrachloroethene (maximum of 1.5 ppb), trichloroethene (maximum of 1.6 ppb) and cis-1,2-dichloroethene (maximum of 15 ppb) in groundwater, with only cis-1,2-dichloroethene detected above GQSS. No chlorinated VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the

property. Four SVOCs were detected in one monitoring well at concentrations well below GQSs. The pesticide deildrin was also detected above GQS in one groundwater sample at a concentration of 0.006 ppb. The metals iron, manganese, and sodium were detected above their respective NYSDEC Groundwater Quality Standards (GQS) in all three groundwater samples, and lead (46 ppb) and chromium (99 ppb) were detected above GQSs in one of the three groundwater samples.

8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. Tetrachloroethylene (PCE) was identified in all three soil vapor samples at a maximum concentration of 3.59  $\mu\text{g}/\text{m}^3$ . Trichloroethylene (TCE) was reported within two of the three soil vapor samples at a maximum concentration of 1.72  $\mu\text{g}/\text{m}^3$ . These PCE and TCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs were generally less than 50  $\mu\text{g}/\text{m}^3$ , with the exceptions of toluene (max of 146  $\mu\text{g}/\text{m}^3$ ) and propylene (max of 87.5  $\mu\text{g}/\text{m}^3$ ). The highest reported concentrations were for acetone (1370  $\mu\text{g}/\text{m}^3$ ) and ethanol (250  $\mu\text{g}/\text{m}^3$ ).

# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

The Rabsky Group, LLC has enrolled in the New York City Volunteer Cleanup Program (NYC VCP) to investigate and remediate a 0.11-acre Site located at 78-80 Throop Avenue in the Williamsburg section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between August 23, 2012 and August 27, 2012. 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 78-80 Throop Avenue in the Williamsburg section of Brooklyn, New York, and is identified as Block 2266 and Lots 32 and 33 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 4,952-square feet and is bounded by a one-story commercial building to the north (Block 2266, Lots 30 and 31), a vacant lot to the south (Block 2266, Lot 36), Throop Avenue to the east, and a vacant lot to the west (Block 2266, Lot 36). A map of the site boundary is shown in Figure 2. Currently, the Site is a vacant lot surrounded by an 8 foot high chain link fence. The vacant lot is uncapped, and overgrown with weeds.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of two identical 4-story apartment buildings. Layout of the proposed site development is presented in Figure 3. The current zoning designation is R7A. R7A is a contextual district that allows residential and community facility buildings. The proposed use is consistent with existing zoning for the property.

The 25ft wide tax lot (Lot 33) and the 24.52 ft wide tax lot (Lot 32) will be developed with identical 25 ft wide residential four-story masonry buildings. Both buildings will have a full cellar beneath the footprint of each building. Both buildings will extend approximately 65 feet. Therefore, the gross building square footage for each building is 8,125 ft<sup>2</sup>. There will be a rear cellar level walk-out court yard behind each building, which will be approximately 35 feet deep.



The concrete slab of the cellar will be approximately 6 feet 4 inches below sidewalk level. The street front portion of the cellar will consist of a boiler room, gas meter room, electric meter room and a large open cellar area. The remaining portions of the cellar for each building will consist of residential space. Each building will consist of three residential units.

Excavation for each new building and rear cellar-level court yard will likely extend to a depth of approximately 8 feet below grade for construction of the buildings' cellar levels and foundations. Assuming an excavation volume of approximately 25 feet (wide) by 100 feet long (length) and 8 feet (deep), a total of approximately 740 cubic yards (1000 tons) of soil will require excavation per building. The total excavated volume of soil for the entire Site will be approximately 1,500 cubic yards (2,200 tons). The slab and rear cellar level court yard for each building will be capped with a 1 ft 6" layer of concrete.

### 1.3 Description of Surrounding Property

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

#### Surrounding Property Usage

Direction	Property Description
<b>North</b> – Adjacent property	<u>Block 2266, Lots 30 and 31</u> (74-76 Throop Avenue) – Developed with a 1-story industrial building. The building is currently used as a warehouse.
<b>South</b> – Adjacent property	<u>Block 2266, Lot 34</u> (82 Throop Avenue) – A 25ft by 100ft lot located on the corner of Throop Avenue and Gerry Street. The lot is undeveloped, vacant and uncapped.
<b>East</b> – Opposite side of Throop Avenue	<u>Block 2267, Lots 7501 and 7502</u> (133 Gerry Street and 59 Throop Avenue) – Bot lots are developed with 4-story apartment buildings.
<b>West</b> – Adjacent property	<u>Block 2266, Lot 36</u> (99 Gerry Street) – A 25ft by 100ft lot located that fronts Gerry Street. The lot is undeveloped, vacant and uncapped.

## **2.0 SITE HISTORY**

### **2.1 Past Uses and Ownership**

Prior to 1887, the property was developed with a bakery, livery and wagon house. The operation was closed by 1904. Sometime between 1904 and 1905 the Site was redeveloped with a 5-story mixed use commercial/residential building. The first floor was divided into two commercial spaces and the upper floors were residential. The 5-story mixed use building remained until the entire lot was demolished in 1980. The Site has remained undeveloped since, but the land was used for lumber storage until 2003. Since 2003 the Site has remained vacant.

### **2.2 Previous Investigations**

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

### **2.3 Site Inspection**

Mr. Kevin Waters of EBC performed the site inspection on Thursday, May 9, 2012, beginning at approximately 8:00 am. The reconnaissance included a visual inspection of the Site, the sidewalk immediately in front of the Site, and the exterior of adjacent properties. At the time of the inspection, the Site consisted of an undeveloped/vacant lot. An 8 foot high chain link fence was present along Throop Avenue and wrapped around the adjacent property to the south along Gerry Street. The groundcover consisted of soil and vegetation over the entire lot. A small amount of trash was strewn about the lot.

### **2.4 Areas of Concern**

The AOCs identified for this Site include:

1. Historic fill layer is present at the Site from grade to depths as great as 7 feet below grade.

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

### **3.0 PROJECT MANAGEMENT**

#### **3.1 Project Organization**

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Kevin Brussee.

#### **3.2 Health and Safety**

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

#### **3.3 Materials Management**

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

## **4.0 REMEDIAL INVESTIGATION ACTIVITIES**

The Rabsky Group, 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 4 soil borings across the entire project Site, and collected 8 soil samples and 1 duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 3 groundwater monitoring wells throughout the Site to establish groundwater flow and collected 3 groundwater samples and one duplicate groundwater sample for chemical analysis to evaluate groundwater quality; and
4. Installed 3 soil vapor probes around Site perimeter and collected 3 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 August 23, 2012 a total of four soil borings (SB1-SB4) were performed in the approximate locations shown on Figure 5. The four soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. For each of the four soil borings, soil samples were collected continuously from grade to a final depth of 10 feet below existing grade using a five-foot steel macro-core sampler with acetate liners and Geoprobe direct-push equipment. Soil recovered from each of the soil borings was field screened for the presence of VOCs with a photo-ionization detector (PID) and visually inspected for evidence of contamination. No PID readings above background concentrations were obtained from any the of soil borings with the exception of slightly elevated readings noted for soil recovered from approximately 8 to 10 feet below grade from soil boring SB1 (50 ppmv) and SB3 (100 ppmv). The soil exhibited a slight petroleum odor, and was stained slightly grey.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval 8 to 10

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 C. A map showing the location of soil borings and monitor wells is shown in Figure 5.

### **Groundwater Monitoring Well Construction**

A temporary 1-inch diameter PVC monitoring well with 10 feet of 0.010 slot screen was installed at boring locations SB1, SB2 and SB3 set to intersect the water table. Since groundwater was encountered at approximately 10 feet below grade, monitoring wells were installed to a depth of 15 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.

## **Soil Sampling**

8 soil samples and 1 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 8 soil samples and duplicate were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted for analysis to Phoenix Environmental Laboratories (Phoenix) of 587 East Middle Turnpike, Manchester, CT 06040, a New York State ELAP certified environmental laboratory (ELAP Certification No. 11301). All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and target analyte list (TAL) metals.

## **Groundwater Sampling**

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, 5-feet below the water table interface (set at approximately 15 feet below grade). A groundwater sample was then collected from each temporary well utilizing dedicated polyethylene tubing and a peristaltic pump utilizing low flow sampling methods. 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 9. Sampling logs with information on purging and sampling of groundwater monitor wells are included in Appendix D. Figure 5 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

## **Soil Vapor Sampling**

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 5. Soil vapor sample collection data is reported in Table 10. Soil vapor sampling logs are included in Appendix E.

Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

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

Soil vapor sampling for the four implants installed on August 23, 2012, was conducted on August 27, 2012. 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 three soil vapor sampling locations. No surface seal leaks were observed at any of the locations.

Following verification that the surface seal was tight, one to three volumes (i.e., the volume of the sample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the

surface tube of each of the three soil vapor implants. Prior to initiating sample collection, sample identification, canister number, date and start time were recorded on tags attached to each canister and in a bound field note book. Sampling then proceeded by fully opening the flow control valve on each canister in turn. Immediately after opening the flow control valve on a canister, the initial vacuum (inches of mercury) was recorded in the field book and on the sample tag. When the vacuum level in the canister was between 5 and 8 inches of mercury (approx 2 hours), the flow controller valve was closed, and the final vacuum recorded in the field notebook and on the sample tag.

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

### Chemical Analysis

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

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Phoenix Environmental Laboratories
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was Phoenix Environmental Laboratories
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> Groundwater analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> </ul>

	<ul style="list-style-type: none"><li>• Pesticides by EPA Method 8081B (rev. 2000);</li><li>• PCBs by EPA Method 8082A (rev. 2000);</li></ul> Soil vapor analytical methods: <ul style="list-style-type: none"><li>• VOCs by TO-15 VOC parameters.</li></ul>
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### Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 10, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix E.

## **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 7 feet below grade. Native soil consisting of a brown sand is present below the historic fill layer.

#### **Hydrogeology**

A table of water level data for all monitoring wells is included in Table 11. The average depth to groundwater is 10 feet. The groundwater flow direction based on prior investigations performed on adjacent properties is from south to north.

### **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 F. Figure 6 shows the location and posts the values for soil/fill that exceeds UUSCOs and RRSCOs.

Soil/fill samples collected during the RI showed no detectable PCBs. Seven VOCs were detected within two of the four soil samples collected at the groundwater interface (8 to 10 ft depth), but only 1,2,4-trimethylbenzene (19,000 ppb) was detected above Unrestricted Use Soil Cleanup Objective (SCO). No VOCs were detected within the shallow soil samples, and no chlorinated VOCs were detected in any sample. Six SVOCs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and indeno(1,2,3-cd)pyrene were detected above their respective Unrestricted Use SCOs in three shallow soil sampling locations and of these benzo(a)anthracene (maximum of 3,600 ppb), benzo(a)pyrene (maximum of 3,300 ppb), and benzo(b)fluoranthene (maximum of 4,500 ppb) were also detected above their respective

Restricted Residential SCOs. The SVOCs detected above Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed during the sampling. Five metals including barium, lead, mercury, chromium and zinc exceeded Unrestricted Use SCOs in shallow soil samples, and of these metals, barium (maximum of 515 ppm), lead (maximum of 677 ppm) and mercury (maximum of 2.54 ppm) also exceeded Restricted Residential SCOs. Pesticides including 4,4,4-DDT (maximum of 200 ppb), 4,4,4-DDE (maximum of 68 ppb), 4,4,4-DDD (maximum of 20 ppb), chlordane (maximum of 1,300 ppb), and dieldrin (maximum of 19 ppb) were detected within the shallow soil samples at concentrations above Unrestricted Use SCOs, but below Restricted Residential SCOs. No SVOCs, PCBs or pesticides were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, the findings were consistent with observations for historical fill sites in areas throughout NYC.

### **5.3 Groundwater Chemistry**

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Tables 6 through 9. Figure 7 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

Groundwater samples collected during the RI showed three chlorinated VOCs, including tetrachloroethene (maximum of 1.5 ppb), trichloroethene (maximum of 1.6 ppb) and cis-1,2-dichloroethene (maximum of 15 ppb) in groundwater, with only cis-1,2-dichloroethene detected above GQSs. No chlorinated VOCs were identified in any of the soil samples collected on Site and are not associated with known historical uses of the property. Four SVOCs were detected in one monitoring well at concentrations well below GQSs. The pesticide deildrin was also detected above GQS in one groundwater sample at a concentration of 0.006 ppb. The metals iron, manganese, and sodium were detected above their respective NYSDEC Groundwater Quality Standards (GQS) in all three groundwater samples, and lead (46 ppb) and chromium (99 ppb) were detected above GQSs in one of the three groundwater samples.

#### **5.4 Soil Vapor Chemistry**

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

Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. Tetrachloroethylene (PCE) was identified in all three two soil vapor samples at a maximum concentration of 3.59  $\mu\text{g}/\text{m}^3$ . Trichloroethylene (TCE) was reported within two of the three soil vapor samples at a maximum concentration of 1.72  $\mu\text{g}/\text{m}^3$ . These PCE and TCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs were generally less than 50  $\mu\text{g}/\text{m}^3$ , with the exceptions of toluene (max of 146  $\mu\text{g}/\text{m}^3$ ) and propylene (max of 87.5  $\mu\text{g}/\text{m}^3$ ). The highest reported concentrations were for acetone (1370  $\mu\text{g}/\text{m}^3$ ) and ethanol (250  $\mu\text{g}/\text{m}^3$ ).

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.

# **TABLES**

**Table 1**  
**78 Throop Avenue**  
**Brooklyn, New York**  
**Soil Boring / Well Information**

<b>SAMPLE ID</b>	<b>Install Date</b>	<b>Sample Date</b>	<b>Total Depth (ft)</b>	<b>Diameter (in)</b>	<b>Construction Materials</b>	<b>Screen Length (ft)</b>	<b>DTW (ft)</b>
SB1	8/23/2012	8/23/2012	10	2	Geoprobe Equipment	-	-
SB2	8/23/2012	8/23/2012	10	2	Geoprobe Equipment	-	-
SB3	8/23/2012	8/23/2012	10	2	Geoprobe Equipment	-	-
SB4	8/23/2012	8/23/2012	10	2	Geoprobe Equipment	-	-
GW1	8/23/2012	8/27/2012	15	1	PVC	10.00	10.99
GW2	8/23/2012	8/27/2012	15	1	PVC	10.00	9.78
GW3	8/23/2012	8/27/2012	15	1	PVC	10.00	9.81

TABLE 2  
78 Throop Avenue  
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*	SB-1		SB-2		SB-3		SB-4		
			(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	Duplicate (0-2') µg/Kg	(8-10') µg/Kg
1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	270	26,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	52,000	ND	19,000	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	52,000	ND	1,100	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2,400	4,900	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	13,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone (Methyl Butyl Ketone)			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Isopropyltoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile			ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	60	4,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide			ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	760	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	49,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	250	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromoethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	41,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene			ND	2,700	ND	ND	ND	1,300	ND	ND	ND
m&p-Xylenes	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	930	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene			ND	1,700	ND	ND	ND	560	ND	ND	ND
n-Butylbenzene	12,000	100,000	ND	1,600	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	ND	3,600	ND	ND	ND	1,700	ND	ND	ND
o-Xylene	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	ND	790	ND	ND	ND	2,400	ND	ND	ND
Styrene			ND	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	310	ND	ND	ND
Tetrachloroethene	1,300	19,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran (THF)			ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	260	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	190	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	21,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	20	900	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total BTEX Concentration			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total VOCs Concentration			0	30,490	0.0	0.0	0.0	6,270	0.0	0.0	0.0

Notes:

ND - Not detected

**Bold/highlighted-** Indicated exceedance of the NYSDEC Unrestricted Use Soil Cleanup Objective

**Bold/highlighted-** Indicated exceedance of the NYSDEC Restricted Residential Soil Cleanup Objective

TABLE 3  
78 Throop Avenue  
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*	SB-1		SB-2		SB-3		SB-4		
			(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	Duplicate 2' (0-2')	(8-10') µg/Kg
1,2,4,5-Tetrachlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene			ND	7,600	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol (o-cresol)	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol (m&p-cresol)	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine			ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline			ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol			ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone			ND	ND	ND	ND	ND	ND	ND	ND	ND
Aniline			ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	100,000	100,000	270	ND	ND	ND	ND	ND	ND	ND	ND
Azobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1,000	1,000	1,100	ND	830	ND	3,600	ND	ND	ND	ND
Benzidine			ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	1,000	1,000	1,100	ND	960	ND	3,300	ND	ND	ND	ND
Benzo(b)fluoranthene	1,000	1,000	1,700	ND	1,400	ND	4,500	ND	ND	ND	ND
Benzo(g,h,i)perylene	100,000	100,000	390	ND	320	ND	1,600	ND	ND	ND	ND
Benzo(k)fluoranthene	800	3,900	520	ND	360	ND	1,800	ND	ND	ND	ND
Benzoic Acid			ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate			ND	ND	300	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether			ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate			ND	ND	300	ND	ND	ND	ND	4,600	ND
Carbazole			ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1,000	3,900	1,200	ND	900	ND	3,800	ND	ND	ND	ND
Dibenzo(a,h)anthracene	330	330	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran			ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate			ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	2,000	ND	1,400	ND	6,500	ND	ND	ND	ND
Fluorene	30,000	100,000	ND	350	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane			ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	400	ND	320	ND	1,500	ND	ND	ND	ND
Isophorone			ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	ND	2,200	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine			ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine			ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine			ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene			ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	800	6,700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	100,000	1,400	ND	810	ND	4,300	ND	ND	ND	ND
Phenol	330	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	100,000	100,000	1,800	ND	1,300	ND	6,000	ND	ND	ND	ND
Pyridine			ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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

ND - Not-detected

NA - Guidance value not available

**Bold/highlighted**- Indicated exceedance of the NYSDEC Unrestricted Use Soil Cleanup Objective

**Bold/highlighted**- Indicated exceedance of the NYSDEC Restricted Residential Soil Cleanup Objective

TABLE 4  
78 Throop Avenue  
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*	SB-1		SB-2		SB-3		SB-4		
			(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	(8-10') µg/Kg	(0-2') µg/Kg	Duplicate (0-2') µg/Kg	(8-10') µg/Kg
PCB-1016	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1221	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1232	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1242	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1248	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1260	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1262	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB-1268	1,000	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,4-DDD	3.3	13,000	ND	ND	ND	ND	ND	ND	19	20	ND
4,4-DDE	3.3	8,900	ND	ND	ND	ND	68	ND	ND	ND	ND
4,4-DDT	3.3	7,900	ND	ND	37	ND	200	ND	25	18	ND
a-BHC	20	480	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alachlor			ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	5	97	ND	ND	ND	ND	ND	ND	ND	ND	ND
b-BHC	36	360	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlordane	94	4,200	310	ND	610	ND	1,300	ND	91	94	ND
d-BHC	40	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	ND	ND	ND	ND	19	ND	7.7	9.5	ND
Endosulfan I	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	2,400	24,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde			ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone			ND	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC			ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide			ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor			ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene			ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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

ND - Not-detected

**Bold/highlighted-** Indicated exceedance of the NYSDEC Unrestricted Use Soil Cleanup Objective

**Bold/highlighted-** Indicated exceedance of the NYSDEC Restricted Residential Soil Cleanup Objective

TABLE 5  
78 Throop Avenue  
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*	SB-1		SB-2		SB-3		SB-4		
			(0-2') mg/Kg	(8-10') mg/Kg	(0-2') mg/Kg	(8-10') mg/Kg	(0-2') mg/Kg	(8-10') mg/Kg	(0-2') mg/Kg	Duplicate (0 2') mg/Kg	(8-10') mg/Kg
Aluminum			8,470	11,000	7,980	10,700	7,660	4,940	4,520	5,530	6,690
Antimony			BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Arsenic	13	16	4	2.8	6.1	1.5	6.8	BRL	2.5	3.9	0.8
Barium	350	400	208	29.3	198	25.3	515	13.2	208	283	15.7
Beryllium	7.2	72	0.41	0.43	0.39	0.44	0.42	BRL	0.31	0.37	BRL
Cadmium	2.5 c	4.3	0.51	BRL	0.38	BRL	0.86	BRL	BRL	BRL	BRL
Calcium			11,600	1,070	13,700	898	25,900	2,130	20,600	25,000	712
Chromium	30 c	180 - trivalent	19.7	19	21.6	20.9	35.4	11.9	11	16.5	15.5
Cobalt			5.61	6.38	5.97	5.1	6.74	3.05	4.07	4.77	4.47
Copper	50	270	32.9	15.3	42.6	14.9	45.5	9.76	18.4	27.3	11.7
Iron			15,100	17,000	20,600	17,600	18,000	6,830	13,400	20,500	8,390
Lead	63 c	400	349	7.93	285	7.61	677	3.98	116	157	4.04
Magnesium			2,990	2,850	3,650	2,600	4,440	1,380	3,700	3,980	2,430
Manganese	1600 c	2,000	197	196	266	120	245	66.5	199	296	73.5
Mercury	0.18 c	0.81	0.71	BRL	0.59	BRL	2.54	BRL	0.13	0.16	BRL
Nickel	30	310	15.2	13	20.7	12.6	15.8	8.41	10.9	15.7	15.4
Potassium			762	872	991	774	864	478	789	858	534
Selenium	3.9c	180	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Silver	2	180	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Sodium			135	56.5	269	47	330	59.6	244	285	45.8
Thallium			BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Vanadium			24.5	32.5	26.8	26.9	27.9	14	33.2	35.6	16.1
Zinc	109 c	10,000	226	46.5	205	32.1	405	15.5	137	197	34.9

Notes:

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

BRL - Below Reporting Limit

**Bold/highlighted-** Indicated exceedance of the NYSDEC Unrestricted Use Soil Cleanup Objective

**Bold/highlighted-** Indicated exceedance of the NYSDEC Restricted Residential Soil Cleanup Objective

TABLE 6  
78 Throop Avenue  
Brooklyn, New York  
Groundwater Analytical Results  
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	GW1 µg/L	Duplicate GW1 µg/L	GW2 µg/L	GW3 µg/L
1,1,1,2-Tetrachloroethane	5	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND
1,1-Dichloropropene		ND	ND	ND	ND
1,2,3-Trichlorobenzene		ND	ND	ND	ND
1,2,3-Trichloropropane	0.04	ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND	ND	ND	ND
1,2-Dichlorobenzene	5	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND
1,2-Dichloropropane	0.94	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND
1,3-Dichlorobenzene	5	ND	ND	ND	ND
1,3-Dichloropropane	5	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND
2,2-Dichloropropane	5	ND	ND	ND	ND
2-Chlorotoluene	5	ND	ND	ND	ND
2-Hexanone (Methyl Butyl Ketone)		ND	ND	ND	ND
2-Isopropyltoluene	5	ND	ND	ND	ND
4-Chlorotoluene	5	ND	ND	ND	ND
4-Methyl-2-Pentanone		ND	ND	ND	ND
Acetone		ND	ND	ND	ND
Acrylonitrile	5	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND
Bromobenzene	5	ND	ND	ND	ND
Bromochloromethane	5	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND
Bromoform		ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND
Carbon Disulfide	60	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND
Chloromethane	60	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	<b>14</b>	<b>13</b>	<b>5.2</b>	<b>15</b>
cis-1,3-Dichloropropene		ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND
Dibromomethane	5	ND	ND	ND	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND
m&p-Xylenes	5	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)		ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	10	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND
n-Butylbenzene	5	ND	ND	ND	ND
n-Propylbenzene	5	ND	ND	ND	ND
o-Xylene	5	ND	ND	ND	ND
p-Isopropyltoluene		ND	ND	ND	ND
sec-Butylbenzene	5	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND
tert-Butylbenzene	5	ND	ND	ND	ND
Tetrachloroethene	5	<b>1.4</b>	<b>1.5</b>	ND	<b>1.5</b>
Tetrahydrofuran (THF)		ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND
Total Xylenes	5	ND	ND	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND
trans-1,4-dichloro-2-butene	5	ND	ND	ND	ND
Trichloroethene	5	<b>1.5</b>	<b>1.5</b>	ND	<b>1.6</b>
Trichlorofluoromethane	5	ND	ND	ND	ND
Trichlorotrifluoroethane		ND	ND	ND	ND
Vinyl Chloride	2	ND	ND	ND	ND

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 7  
78 Throop Avenue  
Brooklyn, New York  
Groundwater Analytical Results  
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	GW1 µg/L	Duplicate GW1 µg/L	GW2 µg/L	GW3 µg/L
1,2-Dichlorobenzene	3	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND
2,4-Dinitrotoluene	5	ND	ND	ND	ND
2,6-Dinitrotoluene	5	ND	ND	ND	ND
2-Chloronaphthalene	10	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND
4-Chlorophenyl phenyl ether		ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	<b>2.8</b>
Acenaphthylene		ND	ND	ND	<b>0.32</b>
Anthracene	50	ND	ND	ND	ND
Azobenzene		ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND
Benzidine	5	ND	ND	ND	ND
Benzo(a)pyrene		ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND
Benzoic Acid		ND	ND	ND	ND
Benzyl Alcohol		ND	ND	ND	ND
Butyl benzyl phthalate	50	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND
Bis(2-chloroethyl)ether	1	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether		ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	5	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	<b>0.011</b>
Dibenzofuran		ND	ND	ND	ND
Diethylphthalate	50	ND	ND	ND	ND
Dimethylphthalate	50	ND	ND	ND	ND
Di-n-butylphthalate	50	ND	ND	ND	ND
Di-n-octylphthalate	50	ND	ND	ND	ND
Fluoranthene	50	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND
Hexachlorobenzene	0.04	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.002	ND	ND	ND	ND
Isophorone	50	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND
N-Nitrosodimethylamine		ND	ND	ND	ND
N-Nitrosodi-n-propylamine		ND	ND	ND	ND
N-Nitrosodiphenylamine	50	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	<b>0.22</b>
Pyrene	50	ND	ND	ND	ND

**Notes:**

ND - Not detected

**Bold/highlighted-** Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8  
78 Throop Avenue  
Brooklyn, New York  
Groundwater Analytical Results  
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards µg/L	GW1 µg/L	Duplicate GW1 µg/L	GW2 µg/L	GW3 µg/L
PCB-1016	0.09	ND	ND	ND	ND
PCB-1221	0.09	ND	ND	ND	ND
PCB-1232	0.09	ND	ND	ND	ND
PCB-1242	0.09	ND	ND	ND	ND
PCB-1248	0.09	ND	ND	ND	ND
PCB-1254	0.09	ND	ND	ND	ND
PCB-1260	0.09	ND	ND	ND	ND
PCB-1262	0.09	ND	ND	ND	ND
PCB-1268	0.09	ND	ND	ND	ND
4,4-DDD	0.3	ND	ND	ND	ND
4,4-DDE	0.2	ND	ND	ND	ND
4,4-DDT	0.11	ND	ND	ND	ND
a-BHC	0.94	ND	ND	ND	ND
Alachlor		ND	ND	ND	ND
Aldrin		ND	ND	ND	ND
b-BHC	0.04	ND	ND	ND	ND
Chlordane	0.05	ND	ND	ND	ND
d-BHC	0.04	ND	ND	ND	ND
Dieldrin	0.004	<b>0.006</b>	<b>0.006</b>	ND	ND
Endosulfan I		ND	ND	ND	ND
Endosulfan II		ND	ND	ND	ND
Endosulfan Sulfate		ND	ND	ND	ND
Endrin		ND	ND	ND	ND
Endrin aldehyde	5	ND	ND	ND	ND
Endrin ketone		ND	ND	ND	ND
gamma-BHC	0.05	ND	ND	ND	ND
Heptachlor	0.04	ND	ND	ND	ND
Heptachlor epoxide	0.03	ND	ND	ND	ND
Methoxychlor	35	ND	ND	ND	ND
Toxaphene		ND	ND	ND	ND

Notes:

ND - Non-detect

**Bold/highlighted-** Indicated exceedance of the NYSDEC Groundwater Standard

Table 9  
 78 Throop Avenue  
 Brooklyn, New York  
 Groundwater Analytical Results  
 TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards µg/L	GW1 µg/L	Duplicate GW1 µg/L	GW2 µg/L	GW3 µg/L
Aluminum	NS	<b>1,160</b>	<b>1,220</b>	<b>541</b>	<b>51,500</b>
Antimony	3	BRL	BRL	BRL	BRL
Arsenic	25	BRL	BRL	BRL	<b>15</b>
Barium	1000	<b>83</b>	<b>84</b>	<b>49</b>	<b>240</b>
Beryllium	3	BRL	BRL	BRL	<b>2</b>
Cadmium	5	BRL	BRL	BRL	BRL
Calcium	NS	<b>202,000</b>	<b>202,000</b>	<b>168,000</b>	<b>232,000</b>
Chromium	50	<b>2</b>	<b>3</b>	<b>1</b>	<b>99</b>
Cobalt	NS	<b>22</b>	<b>23</b>	<b>10</b>	<b>18</b>
Copper	200	<b>114</b>	<b>114</b>	<b>37</b>	<b>88</b>
Iron	500	<b>1,360</b>	<b>1,430</b>	<b>832</b>	<b>35,900</b>
Lead	25	BRL	BRL	BRL	<b>46</b>
Magnesium	35000	<b>22,500</b>	<b>22,500</b>	<b>18,800</b>	<b>101,000</b>
Manganese	300	<b>1,580</b>	<b>1,570</b>	<b>536</b>	<b>297</b>
Mercury	0.7	BRL	BRL	BRL	BRL
Nickel	100	<b>55</b>	<b>54</b>	<b>23</b>	<b>44</b>
Potassium	NS	<b>17,700</b>	<b>17,400</b>	<b>17,400</b>	<b>28,100</b>
Selenium	10	BRL	BRL	BRL	BRL
Silver	50	BRL	BRL	BRL	BRL
Sodium	2000	<b>49,500</b>	<b>48,600</b>	<b>25,900</b>	<b>27,200</b>
Thallium	0.5	BRL	BRL	BRL	BRL
Vanadium	NS	<b>6</b>	<b>4</b>	BRL	<b>179</b>
Zinc	2000	<b>7</b>	<b>7</b>	<b>3</b>	<b>104</b>

Notes:

BRL - Below Reporting Limit

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 10  
78 Throop Avenue  
Brooklyn, New York  
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub Slab Value ( $\mu\text{g}/\text{m}^3$ ) <sup>(a)</sup>	NYSDOH Soil Outdoor Background Levels ( $\mu\text{g}/\text{m}^3$ ) <sup>(b)</sup>	VP1 ( $\mu\text{g}/\text{m}^3$ )	VP2 ( $\mu\text{g}/\text{m}^3$ )	VP3 ( $\mu\text{g}/\text{m}^3$ )
1,1,1,2-Tetrachloroethane			ND	ND	ND
1,1,1-Trichloroethane	100	<2.0 - 2.8	ND	1.36	1.14
1,1,2,2-Tetrachloroethane		<1.5	ND	ND	ND
1,1,2-Trichloroethane		<1.0	ND	ND	ND
1,1-Dichloroethane		<1.0	ND	ND	ND
1,1-Dichloroethene		<1.0	ND	ND	ND
1,2,4-Trichlorobenzene		NA	ND	ND	ND
1,2,4-Trimethylbenzene		<1.0	3.1	3.24	3.88
1,2-Dibromoethane		<1.5	ND	ND	ND
1,2-Dichlorobenzene		<2.0	ND	ND	ND
1,2-Dichloroethane		<1.0	ND	ND	ND
1,2-Dichloroethene		NA	ND	ND	ND
1,2-Dichlorotetrafluoroethane			1.54	2.58	10.3
1,3,5-Trimethylbenzene		<1.0	ND	ND	1.33
1,3-Butadiene		NA	ND	ND	ND
1,3-Dichlorobenzene		<2.0	13.2	14.6	15.2
1,4-Dichlorobenzene		NA	ND	ND	ND
1,4-Dioxane			ND	ND	ND
2-Hexanone			ND	ND	ND
4-Ethyltoluene		NA	ND	ND	ND
4-Isopropyltoluene			ND	ND	ND
4-Methyl-2-pentanone			ND	5.36	3.28
Acetone		NA	726	1,370	966
Acrylonitrile			ND	ND	ND
Benzene		<1.6 - 4.7	10.2	11.3	9.32
Benzyl Chloride		NA	ND	ND	ND
Bromodichloromethane		<5.0	ND	ND	ND
Bromoform		<1.0	ND	ND	ND
Bromomethane		<1.0	ND	ND	ND
Carbon Disulfide		NA	14.1	19.6	16.4
Carbon Tetrachloride	5	<3.1	0.251	ND	ND
Chlorobenzene		<2.0	ND	ND	ND
Chloroethane		NA	ND	ND	ND
Chloroform		<2.4	ND	1.02	ND
Chloromethane		<1.0 - 1.4	ND	ND	ND
cis-1,2-Dichloroethene		<1.0	ND	1.43	ND
cis-1,3-Dichloropropene		NA	ND	ND	ND
Cyclohexane		NA	52.6	25.4	13.7
Dibromochloromethane		<5.0	ND	ND	ND
Dichlorodifluoromethane		NA	4.89	24.9	14
Ethanol			250	247	230
Ethyl Acetate		NA	ND	ND	ND
Ethylbenzene		<4.3	8.33	11.4	19.5
Heptane		NA	29	39.7	35.9
Hexachlorobutadiene		NA	ND	ND	ND
Hexane		<1.5	25.3	31.4	40.2
Isopropylalcohol		NA	44	50.6	42
Isopropylbenzene			ND	ND	ND
Xylene (m&p)		<4.3	21.6	30.9	57.3
Methyl Ethyl Ketone			ND	26.4	24.6
MTBE		NA	ND	ND	ND
Methylene Chloride		<3.4	2.26	8.37	4.69
n-Butylbenzene			ND	ND	ND
Xylene (o)		<4.3	6.2	8.85	17.4
Propylene		NA	22	40.1	87.5
sec-Butylbenzene			ND	ND	ND
Styrene		<1.0	ND	ND	ND
Tetrachloroethene	100		2.51	0.813	3.59
Tetrahydrofuran		NA	18.6	12.9	24.9
Toluene		1.0 - 6.1	93.8	146	131
trans-1,2-Dichloroethene		NA	ND	ND	ND
trans-1,3-Dichloropropene		NA	ND	ND	ND
Trichloroethene	5	<1.7	ND	1.72	1.66
Trichlorofluoromethane		NA	9.71	51.8	18.1
Trichlorotrifluoroethane			ND	ND	ND
Vinyl Chloride		<1.0	ND	ND	ND
Total PVOCS*			584.73	690.55	741.81
Total BTEX**			140.13	208.45	234.52
Total VOCs***			633.191	818.743	826.89

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

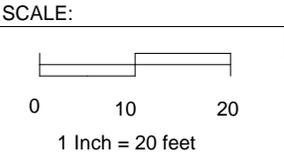
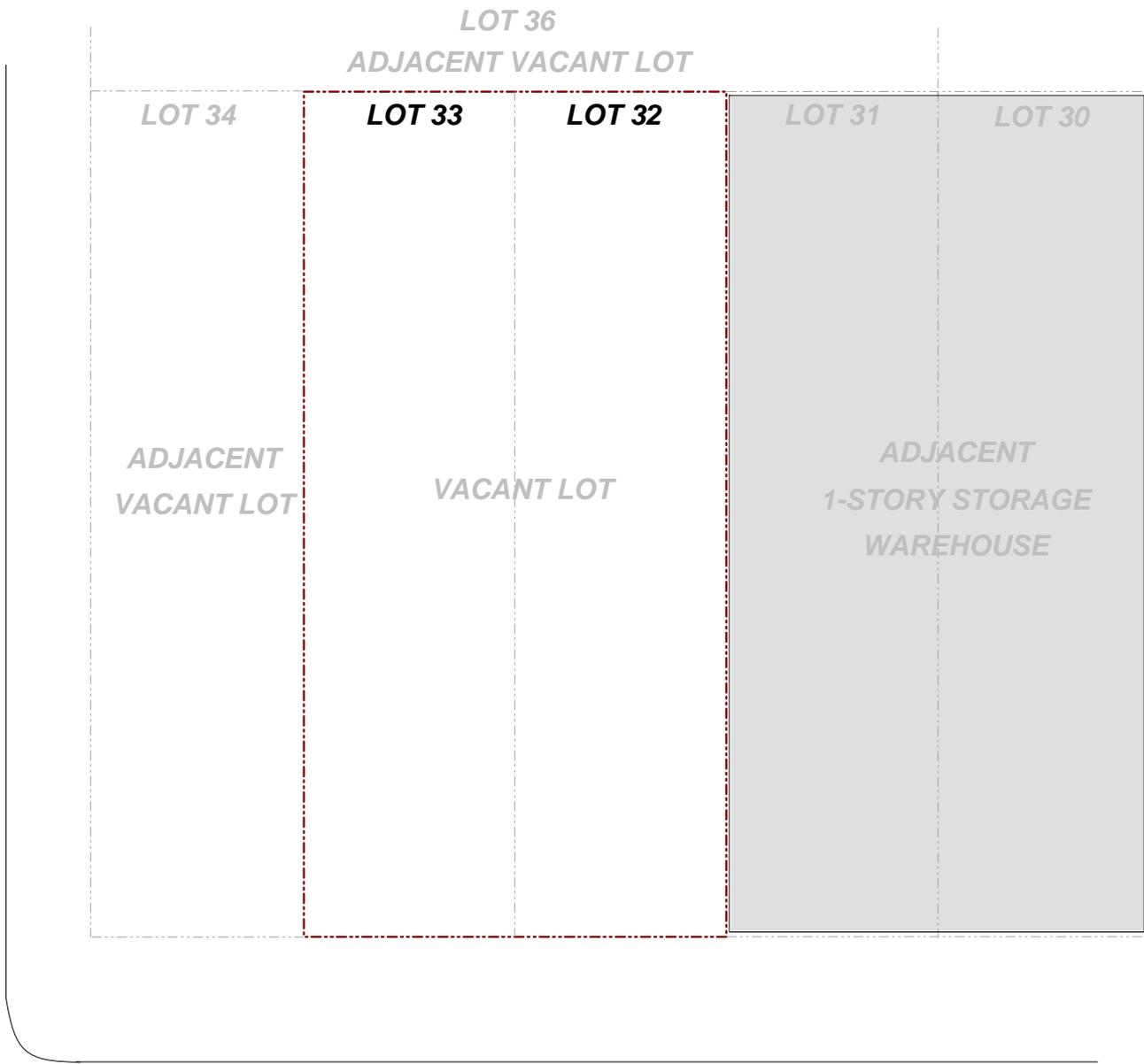
\*\* Benzene, Toluene, Ethylbenzene, Xylene

\*\*\* Volatile Organic Compounds (excluding acetone)

# **FIGURES**



GERRY STREET



KEY:

Property Boundary

THROOP AVENUE

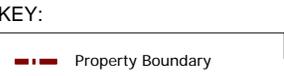
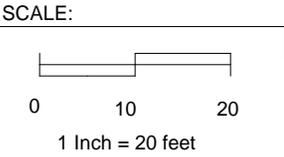
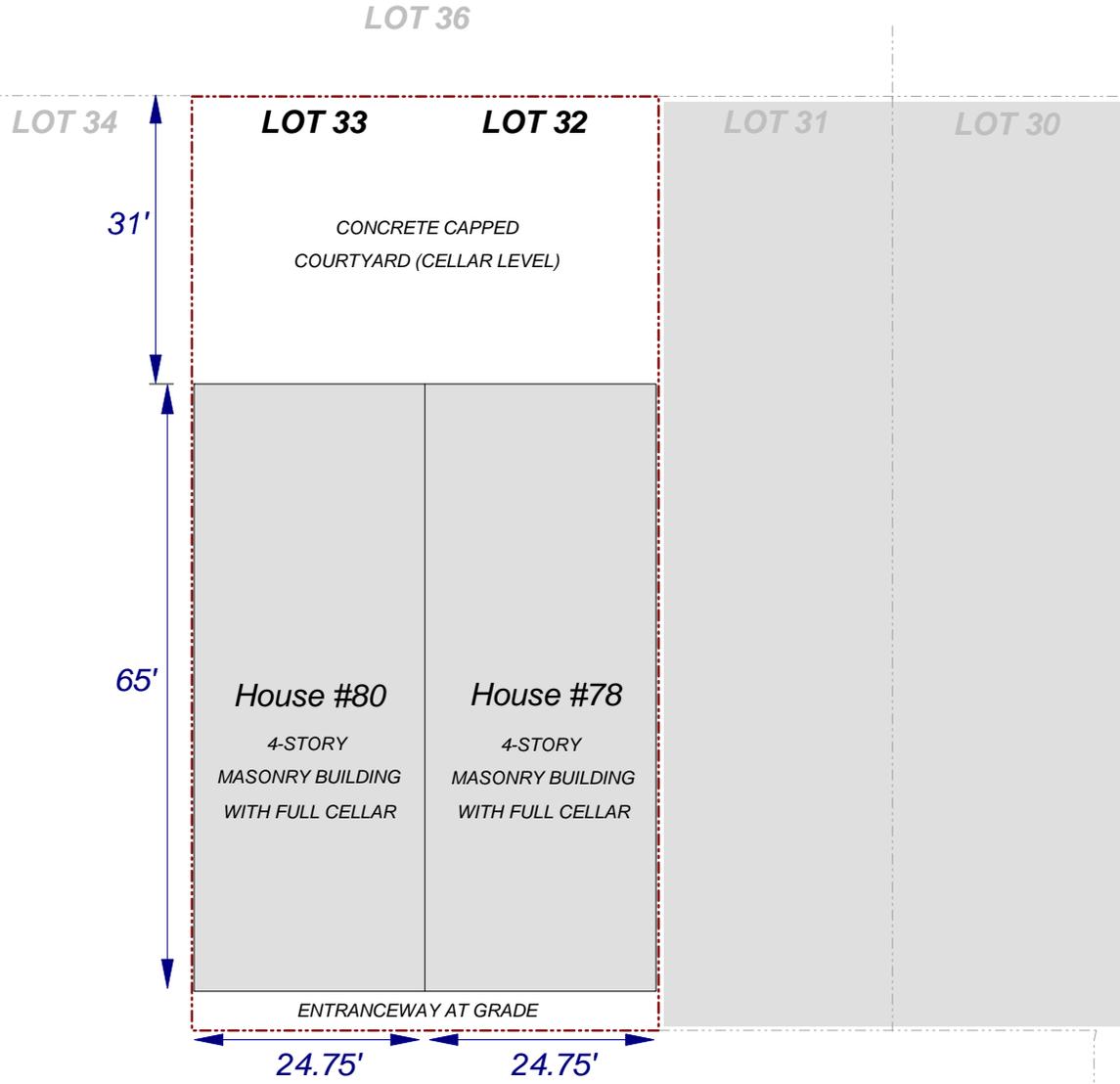


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78 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 2** SITE BOUNDARY

GERRY STREET



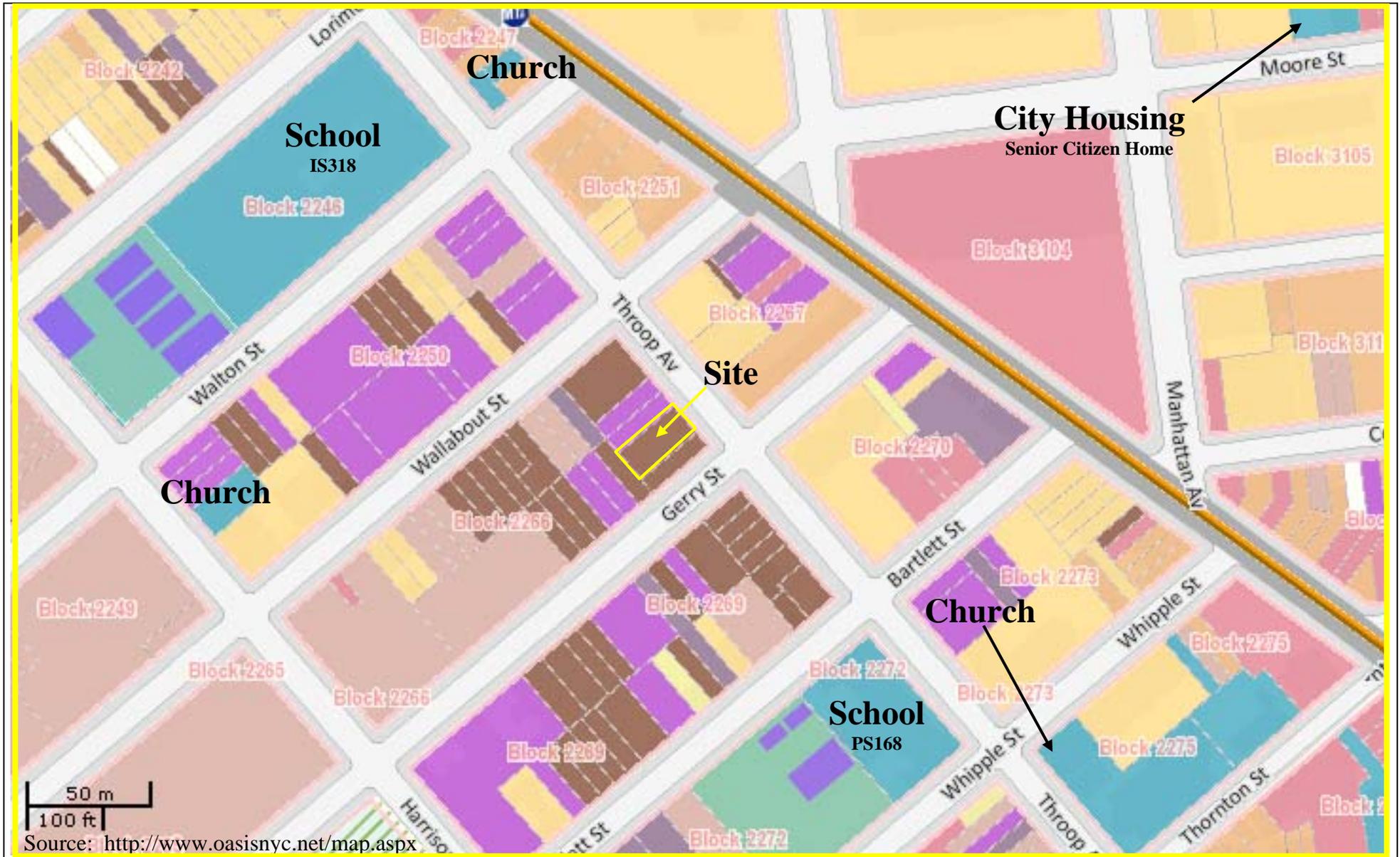
THROOP AVENUE



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78 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 3** REDEVELOPMENT PLANS



**FIGURE 4**  
**SURROUNDING LAND USE MAP**

78 THROOP AVENUE, BROOKLYN, NY  
 HAZARDOUS MATERIALS REMEDIAL INVESTIGATION REPORT



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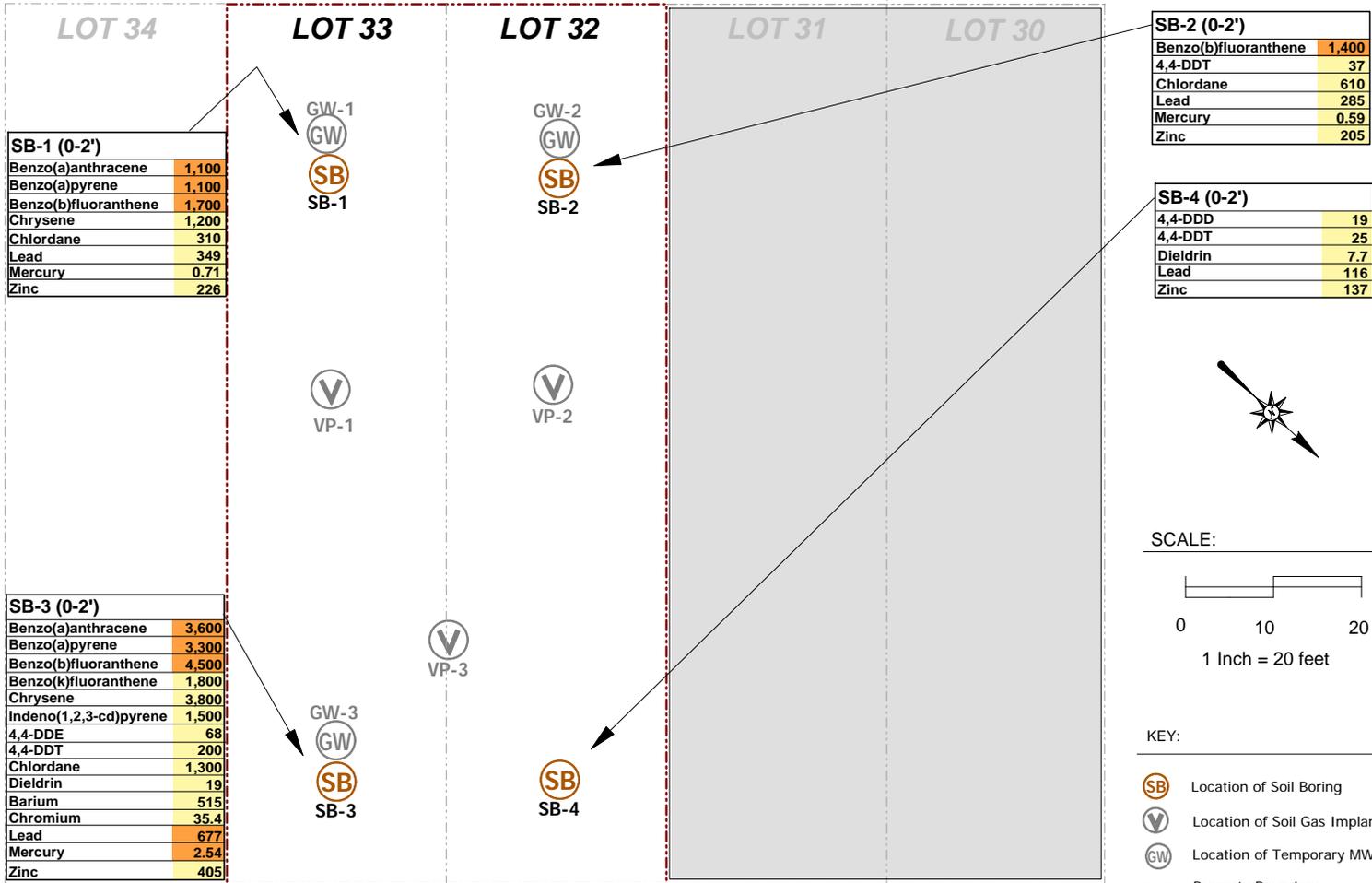
78 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 5**      **SITE PLAN**

LOT 36

GERRY STREET

THROOP AVENUE



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**FIGURE 6 SOIL EXCEEDANCE MAP**

GERRY STREET

GW-2

SVOCs	
cis-1,2-Dichloroethene	13
Total Metals	
Iron	832
Manganese	536
Sodium	25,900

LOT 36

LOT 34

LOT 32

GW-1

SVOCs	
cis-1,2-Dichloroethene	14
Pesticides/PCBs	
Dieldrin	0.006
Total Metals	
Iron	1,360
Manganese	1,580
Sodium	49,500

GW-1  
SB-1

GW-2  
SB-2

VP-1

VP-2

GW-3

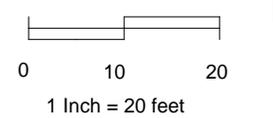
SVOCs	
cis-1,2-Dichloroethene	15
Total Metals	
Chromium	99
Iron	35,900
Lead	46
Magnesium	101,000
Sodium	27,200

GW-3  
SB-3

VP-3



SCALE:



KEY:

- Location of Soil Boring
- Location of Soil Gas Implant
- Location of Temporary MW
- Property Boundary

Compound	ppb
----------	-----

Results based on NYSDEC Groundwater Quality Standards

THROOP AVENUE



ENVIRONMENTAL BUSINESS CONSULTANTS

1808 MIDDLE COUNTRY ROAD, RIDGE, NY 11961

Phone 631.504.6000

Fax 631.924.2780

78 THROOP AVENUE  
BROOKLYN, NY 11206

**FIGURE 7** GROUNDWATER EXCEEDANCE MAP

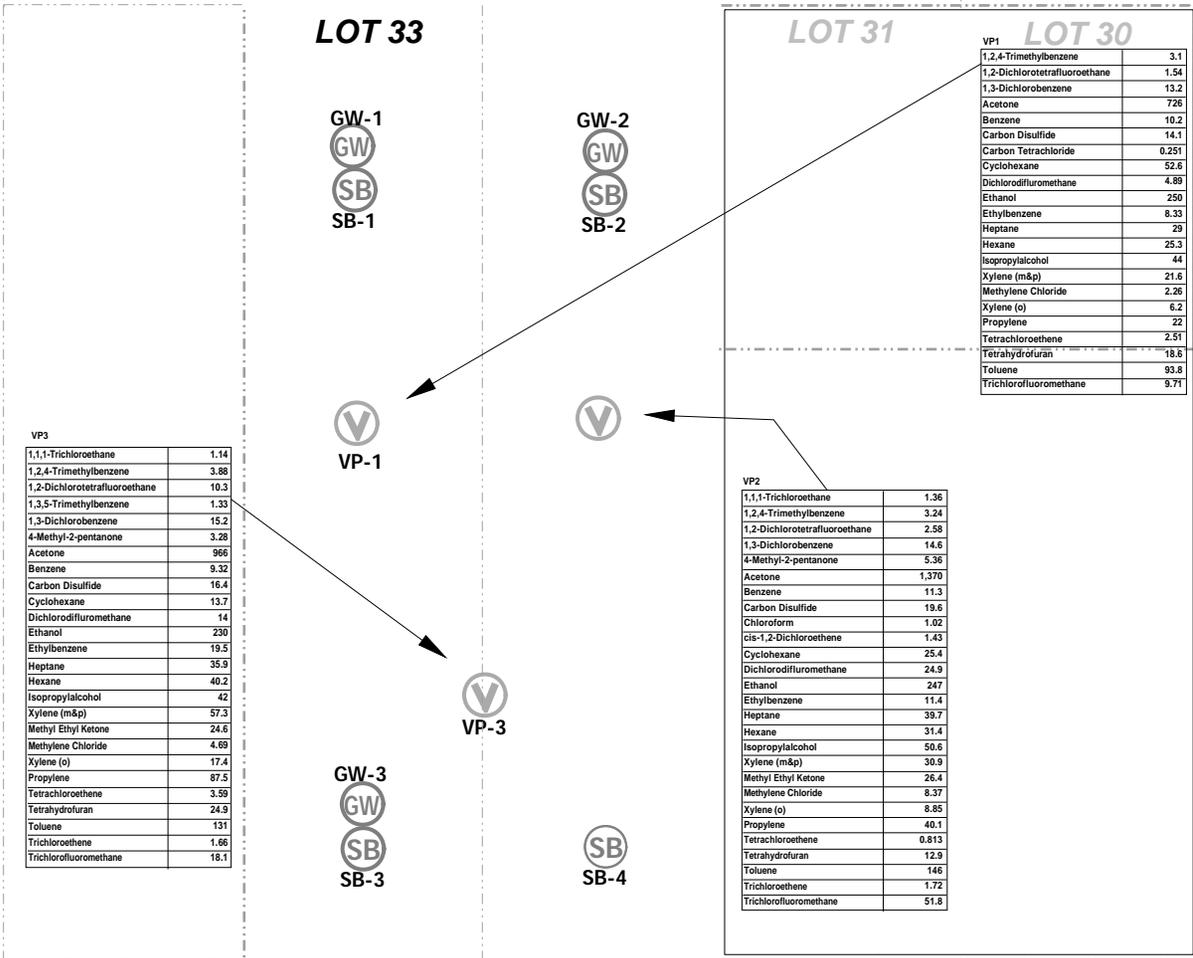
GERRY STREET

LOT 36

LOT 33

LOT 31

LOT 30



VP3

1,1,1-Trichloroethane	1.14
1,2,4-Trimethylbenzene	3.38
1,2-Dichlorotetrafluoroethane	10.3
1,3,5-Trimethylbenzene	1.33
1,3-Dichlorobenzene	15.2
4-Methyl-2-pentanone	3.28
Acetone	966
Benzene	9.32
Carbon Disulfide	16.4
Cyclohexane	13.7
Dichlorodifluoromethane	14
Ethanol	230
Ethylbenzene	19.5
Heptane	35.9
Hexane	40.2
Isopropylalcohol	42
Xylene (m&p)	57.3
Methyl Ethyl Ketone	24.6
Methylene Chloride	4.89
Xylene (o)	17.4
Propylene	87.5
Tetrachloroethene	3.59
Tetrahydrofuran	24.9
Toluene	131
Trichloroethene	1.66
Trichlorofluoromethane	18.1

GW-1  
GW  
SB  
SB-1

GW-2  
GW  
SB  
SB-2

VP-1

VP

VP-3

GW-3  
GW  
SB  
SB-3

SB  
SB-4

VP1

1,2,4-Trimethylbenzene	3.1
1,2-Dichlorotetrafluoroethane	1.54
1,3-Dichlorobenzene	13.2
Acetone	726
Benzene	10.2
Carbon Disulfide	14.1
Carbon Tetrachloride	0.251
Cyclohexane	52.6
Dichlorodifluoromethane	4.89
Ethanol	250
Ethylbenzene	8.33
Heptane	29
Hexane	25.3
Isopropylalcohol	44
Xylene (m&p)	21.6
Methylene Chloride	2.26
Xylene (o)	6.2
Propylene	22
Tetrachloroethene	2.51
Tetrahydrofuran	18.6
Toluene	93.8
Trichlorofluoromethane	9.71

VP2

1,1,1-Trichloroethane	1.36
1,2,4-Trimethylbenzene	3.24
1,2-Dichlorotetrafluoroethane	2.58
1,3-Dichlorobenzene	14.6
4-Methyl-2-pentanone	5.36
Acetone	1,370
Benzene	11.3
Carbon Disulfide	19.6
Chloroform	1.02
cis-1,2-Dichloroethene	1.43
Cyclohexane	25.4
Dichlorodifluoromethane	24.9
Ethanol	247
Ethylbenzene	11.4
Heptane	39.7
Hexane	31.4
Isopropylalcohol	50.6
Xylene (m&p)	30.9
Methyl Ethyl Ketone	26.4
Methylene Chloride	8.37
Xylene (o)	8.85
Propylene	40.1
Tetrachloroethene	0.813
Tetrahydrofuran	12.9
Toluene	145
Trichloroethene	1.72
Trichlorofluoromethane	51.8

- KEY:
- Location of Soil Boring
  - Location of Soil Gas Implant
  - Location of Temporary MW
  - Property Boundary

Compound      µg/m<sup>3</sup>

Value Detected Above NYSDOH Air Guidance Value, requires monitoring.

78 THROOP AVENUE  
BROOKLYN, NY 11206

FIGURE 8 SOIL GAS DETECTIONS

**APPENDIX A**  
**PHASE I REPORT**

**APPENDIX B**  
**SOIL BORING LOGS**

# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

**SB1**

Location: Performed 30 feet from Gerry St boundary, 20 feet from adjacent property to the southwest.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address:	Date	DTW
	78-80 Throop Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe	
Date Started: 8/23/2012		Date Completed: 8/23/2012	
Completion Depth: 10 feet		Geologist: Sara Babyatsky	
		10.99	Well Specifications
			None

SB1 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				47" - Fill Material - Brown silty sand with some brick, glass and plastic.
	to	47		0.0	
	5				*Retained soil sample SB1 (0-2)
	to	47		55.0	30" - Brick and concrete mixed w/brown silty sand 6" - Brown grey marble clay. 12" - Grey/black stained clay with sand. Petrol odor. Brown sands at 10'.
	10				*Retained soil sample SB1 (8-10)
					*Collected GW sample - GW1

# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

**SB2**

Location: Performed 60 feet from Gerry St boundary, 17 feet from adjacent property to the southwest.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address:	Date	DTW
	78-80 Throop Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe	
Date Started: 8/23/2012		Date Completed: 8/23/2012	
Completion Depth: 10 feet		Geologist: Sara Babyatsky	
		Groundwater depth: 9.78	
		Well Specifications: None	

SB2 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	43		0.0	43" - Fill Material - Brown silty sand with some brick.
	5				<i>*Retained soil sample SB2 (0-2)</i>
	to	48		0.0	6" - Fill Material - Brown silty sand w/some brick. 9" - Dark brown silt. 16" - Tan silty clay. 17" - Tan and grey silty clay with 4" coarser sand.
	10				<i>*Retained soil sample SB2 (8-10)</i>
					<i>*Collected GW sample - GW2</i>

# Geologic Boring Log Details



**ENVIRONMENTAL BUSINESS CONSULTANTS**

**SB3**

Location: Performed 29 feet from Gerry St boundary and 16 feet from Throop Ave boundary.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name:	Address:	Date	DTW
	78-80 Throop Avenue, Brooklyn, NY	Groundwater depth	
Drilling Company: Eastern Environmental Solutions		Method: Geoprobe	
Date Started: 8/23/2012		Date Completed: 8/23/2012	
Completion Depth: 10 feet		Geologist: Sara Babyatsky	
		Groundwater depth: 9.81	
		Well Specifications: None	

SB3 (NTS)	DEPTH (ft below grade)	SAMPLES			SOIL DESCRIPTION
		Recovery (in.)	Blow per 6 in.	PID (ppm)	
	0				
	to	28		0.0	28" - Fill Material - Brown silty sand with some brick.  <i>*Retained soil sample SB3 (0-2)</i>
	5				
	to	35		100.0	16" - Fill Material - Brown silty sand with some brick.  6" - Wet brown/grey sandy clay. 12" - Grey stained sand with petrol odor. <i>*Retained soil sample SB3 (8-10)</i>
	10				
					<i>*Collected GW sample - GW3</i>



**APPENDIX C**  
**GROUNDWATER SAMPLING LOGS**

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.: GW1

Date: 8/27/2012

Well Depth (from TOC): 15

Equipment: Peristaltic Pump

Static Water Level (from TOC): 10.99

Height of Water in Well: 4.01

Gallons of Water per Well Volume: 0.1604

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min						turbid
10.00	400ml/min	0.48					Clear

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.: GW2

Date: 8/27/2012

Well Depth (from TOC): 15

Equipment: Peristaltic Pump

Static Water Level (from TOC): 9.78

Height of Water in Well: 5.22

Gallons of Water per Well Volume: 0.2088

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min						turbid
10.00	400ml/min	0.63					Clear

Note 400 ml = 0.11 gallons

## GROUNDWATER PURGE / SAMPLE LOGS



**ENVIRONMENTAL BUSINESS CONSULTANTS**

Well I.D.: GW3

Date: 8/27/2012

Well Depth (from TOC): 15

Equipment: Peristaltic Pump

Static Water Level (from TOC): 9.81

Height of Water in Well: 5.19

Gallons of Water per Well Volume: 0.2076

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min						turbid
10.00	400ml/min	0.63					Clear

Note 400 ml = 0.11 gallons

**APPENDIX D**  
**SOIL GAS SAMPLING LOGS**



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

CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. #

Page of

Data Delivery:

Fax #:

Email:

esosik@delawareny.com

Phone #:

Report to: EBC	Invoice to: EBC	Project Name: 78 Throop Ave.
Customer: EBC		Criteria Requested: Deliverable: RCP <input type="checkbox"/>
Address: 1808 Middle Country Rd Ridge, NY 11961		MCP <input type="checkbox"/>
	Sampled by: S. Babiyatsky	State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
THIS SECTION FOR LAB USE ONLY													MATRIX	ANALYSES			
61168	VP 1	371	6.0	-30	2	3414	39.1	1145	1410	8/27	-30	-4	X				X
61169	VP 2	368	↓	↓	2	4957	45.5	1130	1405	8/27	-30	-4	↑				↑
61170	VP 3	455	↓	↓	0	5350	49.4	1135	1400	8/27	-30	-1	↑				↑
	6L 2HR																

Relinquished by: <i>[Signature]</i>	Accepted by: <i>[Signature]</i>	Date: 8/28/12	Time: 1145	Data Format: Excel <input checked="" type="checkbox"/>	Equis <input type="checkbox"/>	GISKey <input type="checkbox"/>
		8:28	1615	PDF <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>	

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

E-site pricing

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

Quote Number: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**APPENDIX E**  
**LABORATORY REPORTS IN DIGITAL**  
**FORMAT**



Wednesday, September 05, 2012

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

Project ID: 78 THROOP AVE.  
Sample ID#s: BC61168 - BC61170

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 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,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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



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

**Analysis Report**  
 September 05, 2012

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

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: SB  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      14:10  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61168  
 Phoenix ID: BC61168

Project ID: 78 THROOOP AVE.  
 Client ID: VP1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	08/31/12	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	08/31/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	08/31/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	08/31/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	08/31/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	08/31/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	08/31/12	KCA	TO15
1,2,4-Trimethylbenzene	0.63	0.204	3.10	1.00	08/31/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	08/31/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	08/31/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	08/31/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	08/31/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	0.22	0.143	1.54	1.00	08/31/12	KCA	TO15
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	08/31/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	08/31/12	KCA	TO15
1,3-Dichlorobenzene	2.2	0.166	13.2	1.00	08/31/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	08/31/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	08/31/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	08/31/12	KCA	TO15 1
4-Ethyltoluene	ND	0.204	ND	1.00	08/31/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	08/31/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	ND	0.244	ND	1.00	08/31/12	KCA	TO15
Acetone	306	0.421	726	1.00	08/31/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	08/31/12	KCA	TO15
Benzene	3.21	0.313	10.2	1.00	08/31/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	08/31/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	08/31/12	KCA	TO15

Client ID: VP1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	08/31/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	08/31/12	KCA	TO15
Carbon Disulfide	4.52	0.321	14.1	1.00	08/31/12	KCA	TO15
Carbon Tetrachloride	0.04	0.040	0.251	0.25	08/31/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	08/31/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	08/31/12	KCA	TO15
Chloroform	ND	0.205	ND	1.00	08/31/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	08/31/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	08/31/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	08/31/12	KCA	TO15 1
Cyclohexane	15.3	0.291	52.6	1.00	08/31/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	08/31/12	KCA	TO15
Dichlorodifluoromethane	0.99	0.202	4.89	1.00	08/31/12	KCA	TO15
Ethanol	133	0.531	250	1.00	08/31/12	KCA	TO15 1
Ethyl acetate	ND	0.278	ND	1.00	08/31/12	KCA	TO15 1
Ethylbenzene	1.92	0.230	8.33	1.00	08/31/12	KCA	TO15
Heptane	7.07	0.244	29.0	1.00	08/31/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	08/31/12	KCA	TO15
Hexane	7.18	0.284	25.3	1.00	08/31/12	KCA	TO15
Isopropylalcohol	17.9	0.407	44.0	1.00	08/31/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	08/31/12	KCA	TO15
m,p-Xylene	4.99	0.230	21.6	1.00	08/31/12	KCA	TO15
Methyl Ethyl Ketone	ND	0.339	ND	1.00	08/31/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	08/31/12	KCA	TO15
Methylene Chloride	0.65	0.288	2.26	1.00	08/31/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	08/31/12	KCA	TO15 1
o-Xylene	1.43	0.230	6.20	1.00	08/31/12	KCA	TO15
Propylene	12.8	0.581	22.0	1.00	08/31/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	08/31/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	08/31/12	KCA	TO15
Tetrachloroethene	0.37	0.037	2.51	0.25	08/31/12	KCA	TO15
Tetrahydrofuran	6.3	0.339	18.6	1.00	08/31/12	KCA	TO15 1
Toluene	24.9	0.266	93.8	1.00	08/31/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	08/31/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	08/31/12	KCA	TO15
Trichloroethene	ND	0.047	ND	0.25	08/31/12	KCA	TO15
Trichlorofluoromethane	1.73	0.178	9.71	1.00	08/31/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	08/31/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	08/31/12	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	118	%	118	%	08/31/12	KCA	TO15

Client ID: VP1

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.

B\* = Present in blank, a bias is possible.

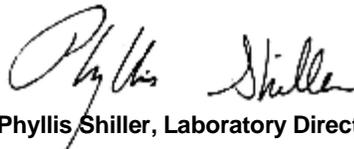
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected

BRL=Below Reporting Level

**Comments:**

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

This report must not be reproduced except in full as defined by the attached chain of custody.



**Phyllis Shiller, Laboratory Director**

**September 05, 2012**

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



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

**Analysis Report**  
 September 05, 2012

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

Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by: SB  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      14:05  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61168  
 Phoenix ID: BC61169

Project ID: 78 THROOOP AVE.  
 Client ID: VP2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	09/01/12	KCA	TO15 1
1,1,1-Trichloroethane	0.25	0.183	1.36	1.00	09/01/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	09/01/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	09/01/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	09/01/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	09/01/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	09/01/12	KCA	TO15
1,2,4-Trimethylbenzene	0.66	0.204	3.24	1.00	09/01/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	09/01/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	09/01/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	09/01/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	09/01/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	0.37	0.143	2.58	1.00	09/01/12	KCA	TO15
1,3,5-Trimethylbenzene	ND	0.204	ND	1.00	09/01/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	09/01/12	KCA	TO15
1,3-Dichlorobenzene	2.43	0.166	14.6	1.00	09/01/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	09/01/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	09/01/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	09/01/12	KCA	TO15 1
4-Ethyltoluene	ND	0.204	ND	1.00	09/01/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	1.31	0.244	5.36	1.00	09/01/12	KCA	TO15
Acetone	576	0.421	1370	1.00	09/01/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	09/01/12	KCA	TO15
Benzene	3.53	0.313	11.3	1.00	09/01/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	09/01/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	09/01/12	KCA	TO15

Client ID: VP2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	09/01/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	09/01/12	KCA	TO15
Carbon Disulfide	6.29	0.321	19.6	1.00	09/01/12	KCA	TO15
Carbon Tetrachloride	ND	0.040	ND	0.25	09/01/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	09/01/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	09/01/12	KCA	TO15
Chloroform	0.21	0.205	1.02	1.00	09/01/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	09/01/12	KCA	TO15
Cis-1,2-Dichloroethene	0.36	0.252	1.43	1.00	09/01/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	09/01/12	KCA	TO15 1
Cyclohexane	7.4	0.291	25.4	1.00	09/01/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	09/01/12	KCA	TO15
Dichlorodifluoromethane	5.04	0.202	24.9	1.00	09/01/12	KCA	TO15
Ethanol	131	0.531	247	1.00	09/01/12	KCA	TO15 1
Ethyl acetate	ND	0.278	ND	1.00	09/01/12	KCA	TO15 1
Ethylbenzene	2.64	0.230	11.4	1.00	09/01/12	KCA	TO15
Heptane	9.69	0.244	39.7	1.00	09/01/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	09/01/12	KCA	TO15
Hexane	8.93	0.284	31.4	1.00	09/01/12	KCA	TO15
Isopropylalcohol	20.6	0.407	50.6	1.00	09/01/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	09/01/12	KCA	TO15
m,p-Xylene	7.12	0.230	30.9	1.00	09/01/12	KCA	TO15
Methyl Ethyl Ketone	8.97	0.339	26.4	1.00	09/01/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	09/01/12	KCA	TO15
Methylene Chloride	2.41	0.288	8.37	1.00	09/01/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
o-Xylene	2.04	0.230	8.85	1.00	09/01/12	KCA	TO15
Propylene	23.3	0.581	40.1	1.00	09/01/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	09/01/12	KCA	TO15
Tetrachloroethene	0.12	0.037	0.813	0.25	09/01/12	KCA	TO15
Tetrahydrofuran	4.39	0.339	12.9	1.00	09/01/12	KCA	TO15 1
Toluene	38.8	0.266	146	1.00	09/01/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	09/01/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	09/01/12	KCA	TO15
Trichloroethene	0.32	0.047	1.72	0.25	09/01/12	KCA	TO15
Trichlorofluoromethane	9.23	0.178	51.8	1.00	09/01/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	09/01/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	09/01/12	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	106	%	106	%	09/01/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

B\* = Present in blank, a bias is possible.

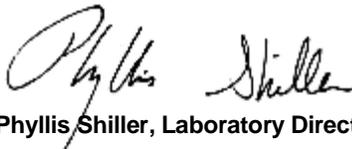
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

## Sample Information

Matrix: AIR  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by: SB  
 Received by: LB  
 Analyzed by: see "By" below

Date: 08/27/12 14:00  
 08/28/12 16:15

## Laboratory Data

SDG ID: GBC61168  
 Phoenix ID: BC61170

Project ID: 78 THROOOP AVE.  
 Client ID: VP3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
<b>Volatiles (TO15)</b>							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	09/01/12	KCA	TO15 1
1,1,1-Trichloroethane	0.21	0.183	1.14	1.00	09/01/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	09/01/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	09/01/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	09/01/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	09/01/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	09/01/12	KCA	TO15
1,2,4-Trimethylbenzene	0.79	0.204	3.88	1.00	09/01/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	09/01/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	09/01/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	09/01/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	09/01/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	1.48	0.143	10.3	1.00	09/01/12	KCA	TO15
1,3,5-Trimethylbenzene	0.27	0.204	1.33	1.00	09/01/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	09/01/12	KCA	TO15
1,3-Dichlorobenzene	2.53	0.166	15.2	1.00	09/01/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	09/01/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	09/01/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	09/01/12	KCA	TO15 1
4-Ethyltoluene	ND	0.204	ND	1.00	09/01/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	0.8	0.244	3.28	1.00	09/01/12	KCA	TO15
Acetone	407	0.421	966	1.00	09/01/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	09/01/12	KCA	TO15
Benzene	2.92	0.313	9.32	1.00	09/01/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	09/01/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	09/01/12	KCA	TO15

Client ID: VP3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	09/01/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	09/01/12	KCA	TO15
Carbon Disulfide	5.27	0.321	16.4	1.00	09/01/12	KCA	TO15
Carbon Tetrachloride	ND	0.040	ND	0.25	09/01/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	09/01/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	09/01/12	KCA	TO15
Chloroform	ND	0.205	ND	1.00	09/01/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	09/01/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	09/01/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	09/01/12	KCA	TO15 1
Cyclohexane	3.99	0.291	13.7	1.00	09/01/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	09/01/12	KCA	TO15
Dichlorodifluoromethane	2.84	0.202	14.0	1.00	09/01/12	KCA	TO15
Ethanol	122	0.531	230	1.00	09/01/12	KCA	TO15 1
Ethyl acetate	ND	0.278	ND	1.00	09/01/12	KCA	TO15 1
Ethylbenzene	4.5	0.230	19.5	1.00	09/01/12	KCA	TO15
Heptane	8.76	0.244	35.9	1.00	09/01/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	09/01/12	KCA	TO15
Hexane	11.4	0.284	40.2	1.00	09/01/12	KCA	TO15
Isopropylalcohol	17.1	0.407	42.0	1.00	09/01/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	09/01/12	KCA	TO15
m,p-Xylene	13.2	0.230	57.3	1.00	09/01/12	KCA	TO15
Methyl Ethyl Ketone	8.33	0.339	24.6	1.00	09/01/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	09/01/12	KCA	TO15
Methylene Chloride	1.35	0.288	4.69	1.00	09/01/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
o-Xylene	4	0.230	17.4	1.00	09/01/12	KCA	TO15
Propylene	50.9	0.581	87.5	1.00	09/01/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	09/01/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	09/01/12	KCA	TO15
Tetrachloroethene	0.53	0.037	3.59	0.25	09/01/12	KCA	TO15
Tetrahydrofuran	8.46	0.339	24.9	1.00	09/01/12	KCA	TO15 1
Toluene	34.7	0.266	131	1.00	09/01/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	09/01/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	09/01/12	KCA	TO15
Trichloroethene	0.31	0.047	1.66	0.25	09/01/12	KCA	TO15
Trichlorofluoromethane	3.22	0.178	18.1	1.00	09/01/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	09/01/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	09/01/12	KCA	TO15
<b><u>QA/QC Surrogates</u></b>							
% Bromofluorobenzene	110	%	110	%	09/01/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

B\* = Present in blank, a bias is possible.

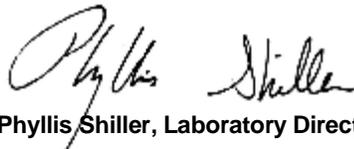
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected

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**

**September 05, 2012**

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



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



# QA/QC Report

September 05, 2012

## QA/QC Data

SDG I.D.: GBC61168

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
QA/QC Batch 208579, QC Sample No: BC61992 (BC61168, BC61169, BC61170)										
<b>Volatiles</b>										
1,1,1,2-Tetrachloroethane	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	100	1.42	1.31	0.26	0.24	8.0	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	105	6.34	6.19	1.29	1.26	2.4	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	102	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	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	92	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	102	1.77	1.52	0.36	0.31	14.9	70 - 130	20
1,3-Butadiene	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	96	1.19	ND	0.29	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	103	1.23	0.982	0.25	0.2	22.2	70 - 130	20
4-Isopropyltoluene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	93	ND	ND	ND	ND	NC	70 - 130	20
Acetone	ND	ND	106	35.4	34.7	14.9	14.6	2.0	70 - 130	20
Acrylonitrile	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	100	23.3	23.2	7.31	7.28	0.4	70 - 130	20
Benzyl chloride	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	127	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	108	0.503	0.440	0.08	0.07	13.3	70 - 130	20
Chlorobenzene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	ND	98	1.11	ND	0.54	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	102	2.67	2.32	0.54	0.47	13.9	70 - 130	20
Ethanol	ND	ND	88	5.61	5.74	2.98	3.05	2.3	70 - 130	20

QA/QC Data

SDG I.D.: GBC61168

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	107	1.33	1.33	0.37	0.37	0.0	70 - 130	20
Ethylbenzene	ND	ND	102	0.998	ND	0.23	ND	NC	70 - 130	20
Heptane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Hexachlorobutadiene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	90	ND	ND	ND	ND	NC	70 - 130	20
Isopropylalcohol	ND	ND	89	2.60	2.63	1.06	1.07	0.9	70 - 130	20
Isopropylbenzene	ND	ND	104	1.47	1.38	0.3	0.28	6.9	70 - 130	20
m,p-Xylene	ND	ND	102	3.38	3.08	0.78	0.71	9.4	70 - 130	20
Methyl Ethyl Ketone	ND	ND	106	8.10	7.43	2.75	2.52	8.7	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	4.5	15.6	96	2.74	2.19	0.79	0.63	22.5	70 - 130	20
n-Butylbenzene	ND	ND	108	1.04	ND	0.19	ND	NC	70 - 130	20
o-Xylene	ND	ND	101	1.69	1.48	0.39	0.34	13.7	70 - 130	20
Propylene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
Tetrahydrofuran	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	ND	95	3.12	2.75	0.83	0.73	12.8	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	98	1.96	1.74	0.35	0.31	12.1	70 - 130	20
Trichlorotrifluoroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	108	108	100	105	104	105	104	1.0	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

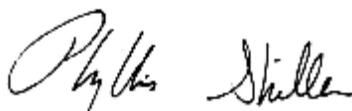
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 September 05, 2012

# Sample Criteria Exceedences Report

Requested Criteria: None

**GBC61168 - EBC**

State: NY

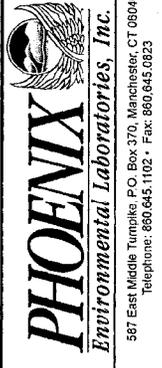
SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

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**

800-827-5426  
email: [greg@phoenixlabs.com](mailto:greg@phoenixlabs.com)

587 East Middle Turnpike P.O. Box 370, Manchester, CT 08040  
Telephone: 860.645.1102 • Fax: 860.645.0823

P.O. # \_\_\_\_\_ of \_\_\_\_\_  
Page \_\_\_\_\_

Data Delivery: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 Email: [csosik@arkline.ny.com](mailto:csosik@arkline.ny.com)  
 Phone #: \_\_\_\_\_

Report to: **EBC**

Customer: **EBC**

Address: **1808 Middle Country Rd  
Ridge, NY 11661**

Invoice to: **EBC**

Project Name: **78 Troop Ave**

Criteria Requested: \_\_\_\_\_ Deliverable:  RCP  MCP

State where samples collected: **NY**

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX			ANALYSES	
		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)	Soil Gas	Crab (C) Composite (C)	TO-14	TO-15
61168	VP 1	371	6.0	30	2	3414	39.1	1/45	1/40	8/27	-30	-4	X		X	
61169	VP 2	368	↓	↓	2	4957	45.5	1/30	1/05	8/27	-30	-4	↓		↓	
61170	VP 3	455	↓	↓	0	5350	49.4	1/35	1/00	8/27	-30	-1	↓		↓	

Relinquished by: *[Signature]* Date: **8/28/12** Time: **1145**

Accepted by: *[Signature]* Date: **8/28** Time: **1615**

Data Format:  Excel  GISKey   
 PDF  Other: \_\_\_\_\_

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION:

**E-site pricing**

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

Quote Number: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Wednesday, September 05, 2012

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

Project ID: 78 THROOP AVE., BROOKLYN  
Sample ID#s: BC59957 - BC59966

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 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,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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



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



# Analysis Report

September 05, 2012

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

### Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      7:30  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59957

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-1 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	08/27/12	EK	SW6010
Aluminum	8470	55	mg/Kg	08/27/12	EK	SW6010
Arsenic	4.0	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	208	3.6	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.41	0.29	mg/Kg	08/27/12	EK	SW6010
Calcium	11600	55	mg/Kg	08/27/12	EK	SW6010
Cadmium	0.51	0.36	mg/Kg	08/27/12	EK	SW6010
Cobalt	5.61	0.36	mg/Kg	08/27/12	EK	SW6010
Chromium	19.7	0.36	mg/Kg	08/27/12	EK	SW6010
Copper	32.9	0.36	mg/kg	08/27/12	EK	SW6010
Iron	15100	55	mg/Kg	08/27/12	EK	SW6010
Mercury	0.71	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	762	5.5	mg/Kg	08/27/12	EK	SW6010
Magnesium	2990	55	mg/Kg	08/27/12	EK	SW6010
Manganese	197	3.6	mg/Kg	08/27/12	EK	SW6010
Sodium	135	5.5	mg/Kg	08/27/12	EK	SW6010
Nickel	15.2	0.36	mg/Kg	08/27/12	EK	SW6010
Lead	349	3.6	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.3	3.3	mg/Kg	08/27/12	EK	SW6010
Vanadium	24.5	0.36	mg/Kg	08/27/12	EK	SW6010
Zinc	226	3.6	mg/Kg	08/27/12	EK	SW6010
Percent Solid	89		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	81		%	08/25/12	AW	30 - 150 %
% TCMX	80		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	36	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	36	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	ND	36	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	18	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.6	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Chlordane	310	56	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	5.6	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	36	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	36	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.6	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	110		%	08/27/12	MH	30 - 150 %
% TCMX	88		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acetone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	08/28/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	08/28/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	98		%	08/28/12	R/J	70 - 130 %
% Bromofluorobenzene	75		%	08/28/12	R/J	70 - 130 %
% Dibromofluoromethane	98		%	08/28/12	R/J	70 - 130 %
% Toluene-d8	92		%	08/28/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	08/26/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	08/26/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	08/26/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	08/26/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	08/26/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	08/26/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Anthracene	270	260	ug/Kg	08/26/12	DD	SW 8270
Azobenzene	ND	370	ug/Kg	08/26/12	DD	SW 8270
Benz(a)anthracene	1100	260	ug/Kg	08/26/12	DD	SW 8270
Benzidine	ND	450	ug/Kg	08/26/12	DD	SW 8270
Benzo(a)pyrene	1100	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(b)fluoranthene	1700	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(ghi)perylene	390	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(k)fluoranthene	520	260	ug/Kg	08/26/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Carbazole	ND	560	ug/Kg	08/26/12	DD	SW 8270
Chrysene	1200	260	ug/Kg	08/26/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	08/26/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Fluoranthene	2000	260	ug/Kg	08/26/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	08/26/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	400	260	ug/Kg	08/26/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	08/26/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	08/26/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	08/26/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	08/26/12	DD	SW 8270
Phenanthrene	1400	260	ug/Kg	08/26/12	DD	SW 8270
Phenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
Pyrene	1800	260	ug/Kg	08/26/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	08/26/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	67		%	08/26/12	DD	30 - 130 %
% 2-Fluorobiphenyl	65		%	08/26/12	DD	40 - 140 %
% 2-Fluorophenol	57		%	08/26/12	DD	30 - 130 %
% Nitrobenzene-d5	67		%	08/26/12	DD	40 - 140 %
% Phenol-d5	60		%	08/26/12	DD	30 - 130 %
% Terphenyl-d14	60		%	08/26/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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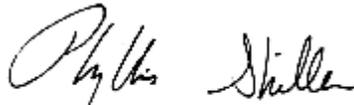
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1P = This parameter is pending certification by NY NELAC for this matrix.  
1O = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.  
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

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

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      7:45  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59958

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-1 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	08/27/12	EK	SW6010
Aluminum	11000	63	mg/Kg	08/27/12	EK	SW6010
Arsenic	2.8	0.8	mg/Kg	08/27/12	EK	SW6010
Barium	29.3	0.42	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.43	0.34	mg/Kg	08/27/12	EK	SW6010
Calcium	1070	63	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	08/27/12	EK	SW6010
Cobalt	6.38	0.42	mg/Kg	08/27/12	EK	SW6010
Chromium	19.0	0.42	mg/Kg	08/27/12	EK	SW6010
Copper	15.3	0.42	mg/kg	08/27/12	EK	SW6010
Iron	17000	63	mg/Kg	08/27/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	872	6.3	mg/Kg	08/27/12	EK	SW6010
Magnesium	2850	63	mg/Kg	08/27/12	EK	SW6010
Manganese	196	4.2	mg/Kg	08/27/12	EK	SW6010
Sodium	56.5	6.3	mg/Kg	08/27/12	EK	SW6010
Nickel	13.0	0.42	mg/Kg	08/27/12	EK	SW6010
Lead	7.93	0.42	mg/Kg	08/27/12	EK	SW6010
Antimony	< 4.2	4.2	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.8	3.8	mg/Kg	08/27/12	EK	SW6010
Vanadium	32.5	0.42	mg/Kg	08/27/12	EK	SW6010
Zinc	46.5	0.42	mg/Kg	08/27/12	EK	SW6010
Percent Solid	80		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	410	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	410	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	72		%	08/25/12	AW	30 - 150 %
% TCMX	80		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	40	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	40	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	ND	40	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	20	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	20	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	6.2	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	20	ug/Kg	08/27/12	MH	SW8081
Chlordane	ND	62	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	20	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	6.2	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	20	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	40	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	40	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	40	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	40	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	40	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	6.2	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	20	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	200	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	200	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	87		%	08/27/12	MH	30 - 150 %
% TCMX	75		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1,1-Trichloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1,2-Trichloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethene	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloropropene	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trimethylbenzene	19000	630	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromoethane	ND	630	ug/Kg	08/28/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloropropane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,3,5-Trimethylbenzene	1100	630	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichloropropane	ND	630	ug/Kg	08/28/12	R/J	SW8260
1,4-Dichlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
2,2-Dichloropropane	ND	630	ug/Kg	08/28/12	R/J	SW8260
2-Chlorotoluene	ND	630	ug/Kg	08/28/12	R/J	SW8260
2-Hexanone	ND	3100	ug/Kg	08/28/12	R/J	SW8260
2-Isopropyltoluene	ND	630	ug/Kg	08/28/12	R/J	SW8260 1
4-Chlorotoluene	ND	630	ug/Kg	08/28/12	R/J	SW8260
4-Methyl-2-pentanone	ND	3100	ug/Kg	08/28/12	R/J	SW8260
Acetone	ND	3100	ug/Kg	08/28/12	R/J	SW8260
Acrylonitrile	ND	1300	ug/Kg	08/28/12	R/J	SW8260
Benzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Bromobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Bromochloromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Bromodichloromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Bromoform	ND	630	ug/Kg	08/28/12	R/J	SW8260
Bromomethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Carbon Disulfide	ND	630	ug/Kg	08/28/12	R/J	SW8260
Carbon tetrachloride	ND	630	ug/Kg	08/28/12	R/J	SW8260
Chlorobenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Chloroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Chloroform	ND	630	ug/Kg	08/28/12	R/J	SW8260
Chloromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	630	ug/Kg	08/28/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	630	ug/Kg	08/28/12	R/J	SW8260 1
Dibromochloromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Dibromomethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Dichlorodifluoromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Ethylbenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Hexachlorobutadiene	ND	630	ug/Kg	08/28/12	R/J	SW8260 1P
Isopropylbenzene	2700	630	ug/Kg	08/28/12	R/J	SW8260
m&p-Xylene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Methyl Ethyl Ketone	ND	3100	ug/Kg	08/28/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	1300	ug/Kg	08/28/12	R/J	SW8260
Methylene chloride	ND	630	ug/Kg	08/28/12	R/J	SW8260
Naphthalene	1700	630	ug/Kg	08/28/12	R/J	SW8260
n-Butylbenzene	1600	630	ug/Kg	08/28/12	R/J	SW8260
n-Propylbenzene	3600	630	ug/Kg	08/28/12	R/J	SW8260
o-Xylene	ND	630	ug/Kg	08/28/12	R/J	SW8260
p-Isopropyltoluene	ND	630	ug/Kg	08/28/12	R/J	SW8260
sec-Butylbenzene	790	630	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	630	ug/Kg	08/28/12	R/J	SW8260
tert-Butylbenzene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Tetrachloroethene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	1300	ug/Kg	08/28/12	R/J	SW8260
Toluene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Total Xylenes	ND	630	ug/Kg	08/28/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	630	ug/Kg	08/28/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	630	ug/Kg	08/28/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	1300	ug/Kg	08/28/12	R/J	SW8260
Trichloroethene	ND	630	ug/Kg	08/28/12	R/J	SW8260
Trichlorofluoromethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Trichlorotrifluoroethane	ND	630	ug/Kg	08/28/12	R/J	SW8260
Vinyl chloride	ND	630	ug/Kg	08/28/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	08/28/12	R/J	70 - 130 %
% Bromofluorobenzene	107		%	08/28/12	R/J	70 - 130 %
% Dibromofluoromethane	97		%	08/28/12	R/J	70 - 130 %
% Toluene-d8	102		%	08/28/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	08/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	08/25/12	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	08/25/12	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
2-Methylnaphthalene	7600	290	ug/Kg	08/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	290	ug/Kg	08/25/12	DD	SW 8270
2-Nitroaniline	ND	650	ug/Kg	08/25/12	DD	SW 8270
2-Nitrophenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	08/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	290	ug/Kg	08/25/12	DD	SW 8270
3-Nitroaniline	ND	650	ug/Kg	08/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	08/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	410	ug/Kg	08/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
4-Chloroaniline	ND	290	ug/Kg	08/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	08/25/12	DD	SW 8270
4-Nitroaniline	ND	650	ug/Kg	08/25/12	DD	SW 8270
4-Nitrophenol	ND	1200	ug/Kg	08/25/12	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	08/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	290	ug/Kg	08/25/12	DD	SW 8270
Aniline	ND	1200	ug/Kg	08/25/12	DD	SW 8270
Anthracene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Azobenzene	ND	410	ug/Kg	08/25/12	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Benzidine	ND	490	ug/Kg	08/25/12	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Benzoic acid	ND	1200	ug/Kg	08/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	410	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	08/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Carbazole	ND	610	ug/Kg	08/25/12	DD	SW 8270
Chrysene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Dibenzofuran	ND	290	ug/Kg	08/25/12	DD	SW 8270
Diethyl phthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Dimethylphthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Di-n-butylphthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Di-n-octylphthalate	ND	290	ug/Kg	08/25/12	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Fluorene	350	290	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobutadiene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Hexachloroethane	ND	290	ug/Kg	08/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Isophorone	ND	290	ug/Kg	08/25/12	DD	SW 8270
Naphthalene	2200	290	ug/Kg	08/25/12	DD	SW 8270
Nitrobenzene	ND	290	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	410	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	410	ug/Kg	08/25/12	DD	SW 8270
Pentachloronitrobenzene	ND	410	ug/Kg	08/25/12	DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	08/25/12	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Phenol	ND	290	ug/Kg	08/25/12	DD	SW 8270
Pyrene	ND	290	ug/Kg	08/25/12	DD	SW 8270
Pyridine	ND	410	ug/Kg	08/25/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	126		%	08/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	71		%	08/25/12	DD	40 - 140 %
% 2-Fluorophenol	81		%	08/25/12	DD	30 - 130 %
% Nitrobenzene-d5	90		%	08/25/12	DD	40 - 140 %
% Phenol-d5	82		%	08/25/12	DD	30 - 130 %
% Terphenyl-d14	38		%	08/25/12	DD	40 - 140 %

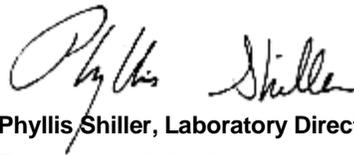
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1P = This parameter is pending certification by NY NELAC for this matrix.  
1O = This parameter is not certified by NY NELAC for this matrix.  
3 = This parameter exceeds laboratory specified limits.  
B = Present in blank, no bias suspected.

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

**Comments:**

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

### Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      8:00  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59959

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-2 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	08/27/12	EK	SW6010
Aluminum	7980	56	mg/Kg	08/27/12	EK	SW6010
Arsenic	6.1	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	198	3.7	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.39	0.30	mg/Kg	08/27/12	EK	SW6010
Calcium	13700	56	mg/Kg	08/27/12	EK	SW6010
Cadmium	0.38	0.37	mg/Kg	08/27/12	EK	SW6010
Cobalt	5.97	0.37	mg/Kg	08/27/12	EK	SW6010
Chromium	21.6	0.37	mg/Kg	08/27/12	EK	SW6010
Copper	42.6	0.37	mg/kg	08/27/12	EK	SW6010
Iron	20600	56	mg/Kg	08/27/12	EK	SW6010
Mercury	0.59	0.08	mg/Kg	08/27/12	RS	SW-7471
Potassium	991	5.6	mg/Kg	08/27/12	EK	SW6010
Magnesium	3650	56	mg/Kg	08/27/12	EK	SW6010
Manganese	266	3.7	mg/Kg	08/27/12	EK	SW6010
Sodium	269	5.6	mg/Kg	08/27/12	EK	SW6010
Nickel	20.7	0.37	mg/Kg	08/27/12	EK	SW6010
Lead	285	3.7	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.4	3.4	mg/Kg	08/27/12	EK	SW6010
Vanadium	26.8	0.37	mg/Kg	08/27/12	EK	SW6010
Zinc	205	3.7	mg/Kg	08/27/12	EK	SW6010
Percent Solid	89		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	76		%	08/25/12	AW	30 - 150 %
% TCMX	80		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	36	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	36	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	37	36	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	18	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.6	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Chlordane	610	56	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	5.6	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	36	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	36	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	36	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.6	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	20	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	124		%	08/27/12	MH	30 - 150 %
% TCMX	100		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acetone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	08/28/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	08/28/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	103		%	08/28/12	R/J	70 - 130 %
% Bromofluorobenzene	78		%	08/28/12	R/J	70 - 130 %
% Dibromofluoromethane	109		%	08/28/12	R/J	70 - 130 %
% Toluene-d8	91		%	08/28/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	08/26/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	08/26/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	08/26/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	08/26/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	08/26/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	08/26/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	08/26/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	08/26/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	08/26/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Azobenzene	ND	370	ug/Kg	08/26/12	DD	SW 8270
Benz(a)anthracene	830	260	ug/Kg	08/26/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	08/26/12	DD	SW 8270
Benzo(a)pyrene	960	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(b)fluoranthene	1400	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(ghi)perylene	320	260	ug/Kg	08/26/12	DD	SW 8270
Benzo(k)fluoranthene	360	260	ug/Kg	08/26/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	08/26/12	DD	SW 8270
Benzyl butyl phthalate	300	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	08/26/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	300	260	ug/Kg	08/26/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	08/26/12	DD	SW 8270
Chrysene	900	260	ug/Kg	08/26/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	08/26/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	08/26/12	DD	SW 8270
Fluoranthene	1400	260	ug/Kg	08/26/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	08/26/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	320	260	ug/Kg	08/26/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	08/26/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	08/26/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	08/26/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	08/26/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	08/26/12	DD	SW 8270
Phenanthrene	810	260	ug/Kg	08/26/12	DD	SW 8270
Phenol	ND	260	ug/Kg	08/26/12	DD	SW 8270
Pyrene	1300	260	ug/Kg	08/26/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	08/26/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	70		%	08/26/12	DD	30 - 130 %
% 2-Fluorobiphenyl	65		%	08/26/12	DD	40 - 140 %
% 2-Fluorophenol	59		%	08/26/12	DD	30 - 130 %
% Nitrobenzene-d5	69		%	08/26/12	DD	40 - 140 %
% Phenol-d5	62		%	08/26/12	DD	30 - 130 %
% Terphenyl-d14	60		%	08/26/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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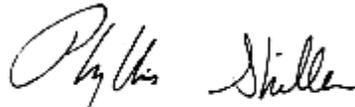
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1P = This parameter is pending certification by NY NELAC for this matrix.  
1O = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.  
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

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

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

### Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

### Date

08/23/12  
 08/24/12

### Time

8:15  
 15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59960

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-2 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	08/27/12	EK	SW6010
Aluminum	10700	57	mg/Kg	08/27/12	EK	SW6010
Arsenic	1.5	0.8	mg/Kg	08/27/12	EK	SW6010
Barium	25.3	0.38	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.44	0.30	mg/Kg	08/27/12	EK	SW6010
Calcium	898	57	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	08/27/12	EK	SW6010
Cobalt	5.10	0.38	mg/Kg	08/27/12	EK	SW6010
Chromium	20.9	0.38	mg/Kg	08/27/12	EK	SW6010
Copper	14.9	0.38	mg/kg	08/27/12	EK	SW6010
Iron	17600	57	mg/Kg	08/27/12	EK	SW6010
Mercury	< 0.06	0.06	mg/Kg	08/27/12	RS	SW-7471
Potassium	774	5.7	mg/Kg	08/27/12	EK	SW6010
Magnesium	2600	57	mg/Kg	08/27/12	EK	SW6010
Manganese	120	3.8	mg/Kg	08/27/12	EK	SW6010
Sodium	47.0	5.7	mg/Kg	08/27/12	EK	SW6010
Nickel	12.6	0.38	mg/Kg	08/27/12	EK	SW6010
Lead	7.61	0.38	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.8	3.8	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.4	3.4	mg/Kg	08/27/12	EK	SW6010
Vanadium	26.9	0.38	mg/Kg	08/27/12	EK	SW6010
Zinc	32.1	0.38	mg/Kg	08/27/12	EK	SW6010
Percent Solid	86		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	390	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	390	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	65		%	08/25/12	AW	30 - 150 %
% TCMX	71		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	37	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	37	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	ND	37	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	18	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.8	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Chlordane	ND	58	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	5.8	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	37	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	37	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	37	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	37	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	37	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.8	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	80		%	08/27/12	MH	30 - 150 %
% TCMX	77		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260

1

1P

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	08/25/12	R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	08/25/12	R/J	SW8260
Acetone	ND	29	ug/Kg	08/25/12	R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	08/25/12	R/J	SW8260
Benzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Bromoform	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Chloroform	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260 1
Dibromochloromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	08/25/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	08/25/12	R/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	08/25/12	R/J	SW8260
Toluene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	08/25/12	R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	08/25/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	102		%	08/25/12	R/J	70 - 130 %
% Bromofluorobenzene	90		%	08/25/12	R/J	70 - 130 %
% Dibromofluoromethane	108		%	08/25/12	R/J	70 - 130 %
% Toluene-d8	99		%	08/25/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	08/25/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	08/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	08/25/12	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	08/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	08/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	08/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	08/25/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	08/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	08/25/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Azobenzene	ND	380	ug/Kg	08/25/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzidine	ND	450	ug/Kg	08/25/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	380	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Carbazole	ND	560	ug/Kg	08/25/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	08/25/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	08/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	08/25/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	380	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	08/25/12	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	08/25/12	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	08/25/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Phenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Pyridine	ND	380	ug/Kg	08/25/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	82		%	08/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	75		%	08/25/12	DD	40 - 140 %
% 2-Fluorophenol	75		%	08/25/12	DD	30 - 130 %
% Nitrobenzene-d5	70		%	08/25/12	DD	40 - 140 %
% Phenol-d5	75		%	08/25/12	DD	30 - 130 %
% Terphenyl-d14	108		%	08/25/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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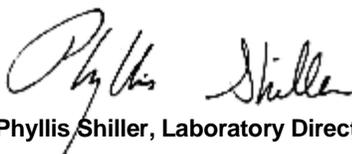
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1P = This parameter is pending certification by NY NELAC for this matrix.  
1O = This parameter is not certified by NY NELAC for this matrix.  
B = Present in blank, no bias suspected.

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

**Comments:**

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      9:00  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59961

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	08/27/12	EK	SW6010
Aluminum	7660	53	mg/Kg	08/27/12	EK	SW6010
Arsenic	6.8	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	515	3.5	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.42	0.28	mg/Kg	08/27/12	EK	SW6010
Calcium	25900	53	mg/Kg	08/27/12	EK	SW6010
Cadmium	0.86	0.35	mg/Kg	08/27/12	EK	SW6010
Cobalt	6.74	0.35	mg/Kg	08/27/12	EK	SW6010
Chromium	35.4	0.35	mg/Kg	08/27/12	EK	SW6010
Copper	45.5	0.35	mg/kg	08/27/12	EK	SW6010
Iron	18000	53	mg/Kg	08/27/12	EK	SW6010
Mercury	2.54	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	864	5.3	mg/Kg	08/27/12	EK	SW6010
Magnesium	4440	53	mg/Kg	08/27/12	EK	SW6010
Manganese	245	3.5	mg/Kg	08/27/12	EK	SW6010
Sodium	330	5.3	mg/Kg	08/27/12	EK	SW6010
Nickel	15.8	0.35	mg/Kg	08/27/12	EK	SW6010
Lead	677	3.5	mg/Kg	08/27/12	EK	SW6010
QC for Mercury	Completed			08/31/12		
QC for ICP	Completed			08/25/12		SW6010
Antimony	< 3.5	3.5	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.2	3.2	mg/Kg	08/27/12	EK	SW6010
Vanadium	27.9	0.35	mg/Kg	08/27/12	EK	SW6010
Zinc	405	3.5	mg/Kg	08/27/12	EK	SW6010
Percent Solid	90		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545

Client ID: SB-3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion MS/MSD	Completed			08/27/12		SW7471
Mercury Digestion	Completed			08/27/12	X/X	SW7471
MS/MSD Ext. For PCB	Completed			08/24/12		
MS/MSD Ext. for Pesticide	Completed			08/24/12	BB/F	
MS/MSD Ext. for Semi-Vol.	Completed			08/24/12		
Total Metals Digest MS/MSD	Completed			08/25/12		
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
QC for PCB	Completed			08/28/12		
QC for Pesticides	Completed			08/28/12		

**Polychlorinated Biphenyls**

PCB-1016	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	08/25/12	AW	SW 8082

**QA/QC Surrogates**

% DCBP	86		%	08/25/12	AW	30 - 150 %
% TCMX	82		%	08/25/12	AW	30 - 150 %

**Pesticides**

4,4' -DDD	ND	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	68	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	200	35	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	17	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.4	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Chlordane	1300	54	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Dieldrin	19	5.4	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.4	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	08/27/12	MH	SW8081

**QA/QC Surrogates**

% DCBP	Interference		%	08/27/12	MH	30 - 150 %
% TCMX	79		%	08/27/12	MH	30 - 150 %
QC for Volatile	Completed			08/28/12	R/J	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
MS/MSD Volatiles	Completed			08/28/12	R/J	
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
1,2,3-Trichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acetone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	08/28/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260 1P

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Isopropylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	08/28/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Styrene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	08/28/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	08/28/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	103		%	08/28/12	R/J	70 - 130 %
% Bromofluorobenzene	77		%	08/28/12	R/J	70 - 130 %
% Dibromofluoromethane	103		%	08/28/12	R/J	70 - 130 %
% Toluene-d8	93		%	08/28/12	R/J	70 - 130 %
QC for Semi-Volatile	Completed			08/27/12		
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	08/26/12	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	08/26/12	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270

Client ID: SB-3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	08/26/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	08/26/12	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	08/26/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5200	ug/Kg	08/26/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	08/26/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	08/26/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	08/26/12	DD	SW 8270
4-Nitroaniline	ND	2900	ug/Kg	08/26/12	DD	SW 8270
4-Nitrophenol	ND	5200	ug/Kg	08/26/12	DD	SW 8270
Acenaphthene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Acenaphthylene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Acetophenone	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Aniline	ND	5200	ug/Kg	08/26/12	DD	SW 8270
Anthracene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Azobenzene	ND	1800	ug/Kg	08/26/12	DD	SW 8270
Benz(a)anthracene	3600	1300	ug/Kg	08/26/12	DD	SW 8270
Benzidine	ND	2200	ug/Kg	08/26/12	DD	SW 8270
Benzo(a)pyrene	3300	1300	ug/Kg	08/26/12	DD	SW 8270
Benzo(b)fluoranthene	4500	1300	ug/Kg	08/26/12	DD	SW 8270
Benzo(ghi)perylene	1600	1300	ug/Kg	08/26/12	DD	SW 8270
Benzo(k)fluoranthene	1800	1300	ug/Kg	08/26/12	DD	SW 8270
Benzoic acid	ND	5200	ug/Kg	08/26/12	DD	SW 8270
Benzyl butyl phthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Carbazole	ND	2700	ug/Kg	08/26/12	DD	SW 8270
Chrysene	3800	1300	ug/Kg	08/26/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Dibenzofuran	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Diethyl phthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Dimethylphthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Di-n-butylphthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Di-n-octylphthalate	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Fluoranthene	6500	1300	ug/Kg	08/26/12	DD	SW 8270
Fluorene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobutadiene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Hexachloroethane	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1500	1300	ug/Kg	08/26/12	DD	SW 8270
Isophorone	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Naphthalene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Nitrobenzene	ND	1300	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodimethylamine	ND	1800	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	1800	ug/Kg	08/26/12	DD	SW 8270
Pentachloronitrobenzene	ND	1800	ug/Kg	08/26/12	DD	SW 8270

1

10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pentachlorophenol	ND	1800	ug/Kg	08/26/12	DD	SW 8270
Phenanthrene	4300	1300	ug/Kg	08/26/12	DD	SW 8270
Phenol	ND	1300	ug/Kg	08/26/12	DD	SW 8270
Pyrene	6000	1300	ug/Kg	08/26/12	DD	SW 8270
Pyridine	ND	1800	ug/Kg	08/26/12	DD	SW 8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	98		%	08/26/12	DD	30 - 130 %
% 2-Fluorobiphenyl	92		%	08/26/12	DD	40 - 140 %
% 2-Fluorophenol	83		%	08/26/12	DD	30 - 130 %
% Nitrobenzene-d5	93		%	08/26/12	DD	40 - 140 %
% Phenol-d5	87		%	08/26/12	DD	30 - 130 %
% Terphenyl-d14	85		%	08/26/12	DD	40 - 140 %

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.

B = Present in blank, no bias suspected.

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

**Comments:**

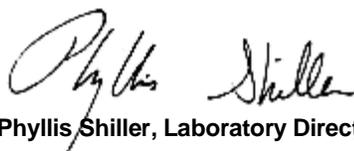
\* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

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

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      9:15  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59962

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-3 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	08/27/12	EK	SW6010
Aluminum	4940	55	mg/Kg	08/27/12	EK	SW6010
Arsenic	< 0.7	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	13.2	0.37	mg/Kg	08/27/12	EK	SW6010
Beryllium	< 0.30	0.30	mg/Kg	08/27/12	EK	SW6010
Calcium	2130	55	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	08/27/12	EK	SW6010
Cobalt	3.05	0.37	mg/Kg	08/27/12	EK	SW6010
Chromium	11.9	0.37	mg/Kg	08/27/12	EK	SW6010
Copper	9.76	0.37	mg/kg	08/27/12	EK	SW6010
Iron	6830	55	mg/Kg	08/27/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	478	5.5	mg/Kg	08/27/12	EK	SW6010
Magnesium	1380	55	mg/Kg	08/27/12	EK	SW6010
Manganese	66.5	0.37	mg/Kg	08/27/12	EK	SW6010
Sodium	59.6	5.5	mg/Kg	08/27/12	EK	SW6010
Nickel	8.41	0.37	mg/Kg	08/27/12	EK	SW6010
Lead	3.98	0.37	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.3	3.3	mg/Kg	08/27/12	EK	SW6010
Vanadium	14.0	0.37	mg/Kg	08/27/12	EK	SW6010
Zinc	15.5	0.37	mg/Kg	08/27/12	EK	SW6010
Percent Solid	89		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

B

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	91		%	08/25/12	AW	30 - 150 %
% TCMX	86		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	18	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Chlordane	ND	55	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	18	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	103		%	08/27/12	MH	30 - 150 %
% TCMX	79		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,1-Trichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,2-Trichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromoethane	ND	280	ug/Kg	08/25/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,4-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
2,2-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
2-Chlorotoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
2-Hexanone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1
4-Chlorotoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Acetone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Acrylonitrile	ND	560	ug/Kg	08/25/12	R/J	SW8260
Benzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromochloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromodichloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromoform	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromomethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Carbon Disulfide	ND	280	ug/Kg	08/25/12	R/J	SW8260
Carbon tetrachloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloroform	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1
Dibromochloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Dibromomethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Dichlorodifluoromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Ethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Hexachlorobutadiene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1P
Isopropylbenzene	1300	280	ug/Kg	08/25/12	R/J	SW8260
m&p-Xylene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Methyl Ethyl Ketone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	560	ug/Kg	08/25/12	R/J	SW8260
Methylene chloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
Naphthalene	560	280	ug/Kg	08/25/12	R/J	SW8260
n-Butylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
n-Propylbenzene	1700	280	ug/Kg	08/25/12	R/J	SW8260
o-Xylene	ND	280	ug/Kg	08/25/12	R/J	SW8260
p-Isopropyltoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
sec-Butylbenzene	2400	280	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	280	ug/Kg	08/25/12	R/J	SW8260
tert-Butylbenzene	310	280	ug/Kg	08/25/12	R/J	SW8260
Tetrachloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	560	ug/Kg	08/25/12	R/J	SW8260
Toluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Total Xylenes	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	08/25/12	R/J	SW8260
Trichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Trichlorofluoromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Trichlorotrifluoroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Vinyl chloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	113		%	08/25/12	R/J	70 - 130 %
% Bromofluorobenzene	155		%	08/25/12	R/J	70 - 130 %
% Dibromofluoromethane	97		%	08/25/12	R/J	70 - 130 %
% Toluene-d8	105		%	08/25/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
1,2-Dichlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
1,3-Dichlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
1,4-Dichlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,4-Dichlorophenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,4-Dimethylphenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrophenol	ND	15000	ug/Kg	08/26/12	DD	SW 8270
2,4-Dinitrotoluene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2,6-Dinitrotoluene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2-Chloronaphthalene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2-Chlorophenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2-Methylnaphthalene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	6500	ug/Kg	08/26/12	DD	SW 8270
2-Nitroaniline	ND	15000	ug/Kg	08/26/12	DD	SW 8270
2-Nitrophenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	9200	ug/Kg	08/26/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	6500	ug/Kg	08/26/12	DD	SW 8270
3-Nitroaniline	ND	15000	ug/Kg	08/26/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	27000	ug/Kg	08/26/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	9200	ug/Kg	08/26/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
4-Chloroaniline	ND	6500	ug/Kg	08/26/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	6500	ug/Kg	08/26/12	DD	SW 8270
4-Nitroaniline	ND	15000	ug/Kg	08/26/12	DD	SW 8270
4-Nitrophenol	ND	27000	ug/Kg	08/26/12	DD	SW 8270
Acenaphthene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Acenaphthylene	ND	6500	ug/Kg	08/26/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Aniline	ND	27000	ug/Kg	08/26/12	DD	SW 8270
Anthracene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Azobenzene	ND	9200	ug/Kg	08/26/12	DD	SW 8270
Benz(a)anthracene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Benzidine	ND	11000	ug/Kg	08/26/12	DD	SW 8270
Benzo(a)pyrene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Benzo(b)fluoranthene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Benzo(ghi)perylene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Benzo(k)fluoranthene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Benzoic acid	ND	27000	ug/Kg	08/26/12	DD	SW 8270
Benzyl butyl phthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	9200	ug/Kg	08/26/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Carbazole	ND	14000	ug/Kg	08/26/12	DD	SW 8270
Chrysene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Dibenzofuran	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Diethyl phthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Dimethylphthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Di-n-butylphthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Di-n-octylphthalate	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Fluoranthene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Fluorene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Hexachlorobutadiene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Hexachloroethane	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Isophorone	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Naphthalene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Nitrobenzene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodimethylamine	ND	9200	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	6500	ug/Kg	08/26/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	9200	ug/Kg	08/26/12	DD	SW 8270
Pentachloronitrobenzene	ND	9200	ug/Kg	08/26/12	DD	SW 8270
Pentachlorophenol	ND	9200	ug/Kg	08/26/12	DD	SW 8270
Phenanthrene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Phenol	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Pyrene	ND	6500	ug/Kg	08/26/12	DD	SW 8270
Pyridine	ND	9200	ug/Kg	08/26/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	*Diluted Out		%	08/26/12	DD	30 - 130 %
% 2-Fluorobiphenyl	*Diluted Out		%	08/26/12	DD	40 - 140 %
% 2-Fluorophenol	*Diluted Out		%	08/26/12	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	08/26/12	DD	40 - 140 %
% Phenol-d5	*Diluted Out		%	08/26/12	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	08/26/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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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.  
3 = This parameter exceeds laboratory specified limits.  
B = Present in blank, no bias suspected.

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

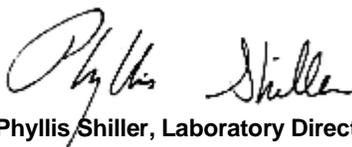
**Comments:**

\* 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 the presence of target and non-target compounds.

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      10:00  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59963

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-4 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	08/27/12	EK	SW6010
Aluminum	4520	54	mg/Kg	08/27/12	EK	SW6010
Arsenic	2.5	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	208	3.6	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.31	0.29	mg/Kg	08/27/12	EK	SW6010
Calcium	20600	54	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	08/27/12	EK	SW6010
Cobalt	4.07	0.36	mg/Kg	08/27/12	EK	SW6010
Chromium	11.0	0.36	mg/Kg	08/27/12	EK	SW6010
Copper	18.4	0.36	mg/kg	08/27/12	EK	SW6010
Iron	13400	54	mg/Kg	08/27/12	EK	SW6010
Mercury	0.13	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	789	5.4	mg/Kg	08/27/12	EK	SW6010
Magnesium	3700	54	mg/Kg	08/27/12	EK	SW6010
Manganese	199	3.6	mg/Kg	08/27/12	EK	SW6010
Sodium	244	5.4	mg/Kg	08/27/12	EK	SW6010
Nickel	10.9	0.36	mg/Kg	08/27/12	EK	SW6010
Lead	116	3.6	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.2	3.2	mg/Kg	08/27/12	EK	SW6010
Vanadium	33.2	0.36	mg/Kg	08/27/12	EK	SW6010
Zinc	137	3.6	mg/Kg	08/27/12	EK	SW6010
Percent Solid	93		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	BB/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	350	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	86		%	08/25/12	AW	30 - 150 %
% TCMX	88		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	19	18	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	25	18	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	17	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Chlordane	91	53	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Dieldrin	7.7	5.3	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	92		%	08/27/12	MH	30 - 150 %
% TCMX	90		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	08/28/12	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	08/28/12	R/J	SW8260
Acetone	ND	27	ug/Kg	08/28/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	08/28/12	R/J	SW8260
Benzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	08/28/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	08/28/12	R/J	SW8260
Toluene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	08/28/12	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	08/28/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	08/28/12	R/J	70 - 130 %
% Bromofluorobenzene	78		%	08/28/12	R/J	70 - 130 %
% Dibromofluoromethane	109		%	08/28/12	R/J	70 - 130 %
% Toluene-d8	90		%	08/28/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
1,2-Dichlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
1,3-Dichlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
1,4-Dichlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,4-Dichlorophenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,4-Dimethylphenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,4-Dinitrophenol	ND	5600	ug/Kg	08/27/12	DD	SW 8270
2,4-Dinitrotoluene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2,6-Dinitrotoluene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2-Chloronaphthalene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2-Chlorophenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2-Methylnaphthalene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	2500	ug/Kg	08/27/12	DD	SW 8270
2-Nitroaniline	ND	5600	ug/Kg	08/27/12	DD	SW 8270
2-Nitrophenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	3500	ug/Kg	08/27/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	2500	ug/Kg	08/27/12	DD	SW 8270
3-Nitroaniline	ND	5600	ug/Kg	08/27/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10000	ug/Kg	08/27/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	3500	ug/Kg	08/27/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
4-Chloroaniline	ND	2500	ug/Kg	08/27/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	2500	ug/Kg	08/27/12	DD	SW 8270
4-Nitroaniline	ND	5600	ug/Kg	08/27/12	DD	SW 8270
4-Nitrophenol	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Acenaphthene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Acenaphthylene	ND	2500	ug/Kg	08/27/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Aniline	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Anthracene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Azobenzene	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Benz(a)anthracene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Benzidine	ND	4200	ug/Kg	08/27/12	DD	SW 8270
Benzo(a)pyrene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Benzo(b)fluoranthene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Benzo(ghi)perylene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Benzo(k)fluoranthene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Benzoic acid	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Benzyl butyl phthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Carbazole	ND	5300	ug/Kg	08/27/12	DD	SW 8270
Chrysene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Dibenzofuran	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Diethyl phthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Dimethylphthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Di-n-butylphthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Di-n-octylphthalate	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Fluoranthene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Fluorene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Hexachlorobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Hexachlorobutadiene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Hexachloroethane	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Isophorone	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Naphthalene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Nitrobenzene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodimethylamine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	2500	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Pentachloronitrobenzene	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Pentachlorophenol	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Phenanthrene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Phenol	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Pyrene	ND	2500	ug/Kg	08/27/12	DD	SW 8270
Pyridine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	*Diluted Out		%	08/27/12	DD	30 - 130 %
% 2-Fluorobiphenyl	*Diluted Out		%	08/27/12	DD	40 - 140 %
% 2-Fluorophenol	*Diluted Out		%	08/27/12	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	08/27/12	DD	40 - 140 %
% Phenol-d5	*Diluted Out		%	08/27/12	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	08/27/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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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.  
B = Present in blank, no bias suspected.  
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

\* 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.

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

\* For Pesticides, some of the continuing calibration standard recoveries were below criteria due to a matrix interference in the samples. A negative sample bias is suspected.

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      10:15  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59964

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: SB-4 8-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	08/27/12	EK	SW6010
Aluminum	6690	51	mg/Kg	08/27/12	EK	SW6010
Arsenic	0.8	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	15.7	0.34	mg/Kg	08/27/12	EK	SW6010
Beryllium	< 0.27	0.27	mg/Kg	08/27/12	EK	SW6010
Calcium	712	51	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	08/27/12	EK	SW6010
Cobalt	4.47	0.34	mg/Kg	08/27/12	EK	SW6010
Chromium	15.5	0.34	mg/Kg	08/27/12	EK	SW6010
Copper	11.7	0.34	mg/kg	08/27/12	EK	SW6010
Iron	8390	51	mg/Kg	08/27/12	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	08/27/12	RS	SW-7471
Potassium	534	5.1	mg/Kg	08/27/12	EK	SW6010
Magnesium	2430	51	mg/Kg	08/27/12	EK	SW6010
Manganese	73.5	0.34	mg/Kg	08/27/12	EK	SW6010
Sodium	45.8	5.1	mg/Kg	08/27/12	EK	SW6010
Nickel	15.4	0.34	mg/Kg	08/27/12	EK	SW6010
Lead	4.04	0.34	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.4	3.4	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.1	3.1	mg/Kg	08/27/12	EK	SW6010
Vanadium	16.1	0.34	mg/Kg	08/27/12	EK	SW6010
Zinc	34.9	0.34	mg/Kg	08/27/12	EK	SW6010
Percent Solid	89		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	RJ/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	78		%	08/25/12	AW	30 - 150 %
% TCMX	81		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	17	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.4	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Chlordane	ND	54	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Dieldrin	ND	5.4	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.4	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	100		%	08/27/12	MH	30 - 150 %
% TCMX	82		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,1-Trichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1,2-Trichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromoethane	ND	280	ug/Kg	08/25/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
1,4-Dichlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
2,2-Dichloropropane	ND	280	ug/Kg	08/25/12	R/J	SW8260
2-Chlorotoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
2-Hexanone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1
4-Chlorotoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
4-Methyl-2-pentanone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Acetone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Acrylonitrile	ND	560	ug/Kg	08/25/12	R/J	SW8260
Benzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromochloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromodichloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromoform	ND	280	ug/Kg	08/25/12	R/J	SW8260
Bromomethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Carbon Disulfide	ND	280	ug/Kg	08/25/12	R/J	SW8260
Carbon tetrachloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chlorobenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloroform	ND	280	ug/Kg	08/25/12	R/J	SW8260
Chloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1
Dibromochloromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Dibromomethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Dichlorodifluoromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Ethylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Hexachlorobutadiene	ND	280	ug/Kg	08/25/12	R/J	SW8260 1P
Isopropylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
m&p-Xylene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Methyl Ethyl Ketone	ND	1400	ug/Kg	08/25/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	560	ug/Kg	08/25/12	R/J	SW8260
Methylene chloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
Naphthalene	ND	280	ug/Kg	08/25/12	R/J	SW8260
n-Butylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
n-Propylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
o-Xylene	ND	280	ug/Kg	08/25/12	R/J	SW8260
p-Isopropyltoluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
sec-Butylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	280	ug/Kg	08/25/12	R/J	SW8260
tert-Butylbenzene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Tetrachloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	560	ug/Kg	08/25/12	R/J	SW8260
Toluene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Total Xylenes	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	280	ug/Kg	08/25/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	08/25/12	R/J	SW8260
Trichloroethene	ND	280	ug/Kg	08/25/12	R/J	SW8260
Trichlorofluoromethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Trichlorotrifluoroethane	ND	280	ug/Kg	08/25/12	R/J	SW8260
Vinyl chloride	ND	280	ug/Kg	08/25/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	101		%	08/25/12	R/J	70 - 130 %
% Bromofluorobenzene	95		%	08/25/12	R/J	70 - 130 %
% Dibromofluoromethane	94		%	08/25/12	R/J	70 - 130 %
% Toluene-d8	99		%	08/25/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	08/25/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	08/25/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	08/25/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	08/25/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	08/25/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	08/25/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	08/25/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	08/25/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	08/25/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	08/25/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	08/25/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	08/25/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Azobenzene	ND	370	ug/Kg	08/25/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	08/25/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	08/25/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	08/25/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	08/25/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	08/25/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	08/25/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	08/25/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	08/25/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	08/25/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	08/25/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	08/25/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	08/25/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	08/25/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Phenol	ND	260	ug/Kg	08/25/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	08/25/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	08/25/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	110		%	08/25/12	DD	30 - 130 %
% 2-Fluorobiphenyl	81		%	08/25/12	DD	40 - 140 %
% 2-Fluorophenol	83		%	08/25/12	DD	30 - 130 %
% Nitrobenzene-d5	80		%	08/25/12	DD	40 - 140 %
% Phenol-d5	84		%	08/25/12	DD	30 - 130 %
% Terphenyl-d14	96		%	08/25/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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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.

B = Present in blank, no bias suspected.

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

BRL=Below Reporting Level

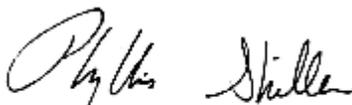
**Comments:**

Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

### Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 08/23/12 0:00  
 08/24/12 15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59965

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	08/27/12	EK	SW6010
Aluminum	5530	56	mg/Kg	08/27/12	EK	SW6010
Arsenic	3.9	0.7	mg/Kg	08/27/12	EK	SW6010
Barium	283	3.7	mg/Kg	08/27/12	EK	SW6010
Beryllium	0.37	0.30	mg/Kg	08/27/12	EK	SW6010
Calcium	25000	56	mg/Kg	08/27/12	EK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	08/27/12	EK	SW6010
Cobalt	4.77	0.37	mg/Kg	08/27/12	EK	SW6010
Chromium	16.5	0.37	mg/Kg	08/27/12	EK	SW6010
Copper	27.3	0.37	mg/kg	08/27/12	EK	SW6010
Iron	20500	56	mg/Kg	08/27/12	EK	SW6010
Mercury	0.16	0.08	mg/Kg	08/27/12	RS	SW-7471
Potassium	858	5.6	mg/Kg	08/27/12	EK	SW6010
Magnesium	3980	56	mg/Kg	08/27/12	EK	SW6010
Manganese	296	3.7	mg/Kg	08/27/12	EK	SW6010
Sodium	285	5.6	mg/Kg	08/27/12	EK	SW6010
Nickel	15.7	0.37	mg/Kg	08/27/12	EK	SW6010
Lead	157	3.7	mg/Kg	08/27/12	EK	SW6010
Antimony	< 3.7	3.7	mg/Kg	08/27/12	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	08/27/12	EK	SW6010
Thallium	< 3.4	3.4	mg/Kg	08/27/12	EK	SW6010
Vanadium	35.6	0.37	mg/Kg	08/27/12	EK	SW6010
Zinc	197	3.7	mg/Kg	08/27/12	EK	SW6010
Percent Solid	93		%	08/24/12	JL	E160.3
Soil Extraction for PCB	Completed			08/24/12	RB	SW3545
Soil Extraction for Pesticide	Completed			08/24/12	RB/F	SW3545
Soil Extraction for SVOA	Completed			08/24/12	BB/F	SW3545
Mercury Digestion	Completed			08/27/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			08/24/12	AG	SW846 - 3050
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1221	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1232	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1242	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1248	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1254	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1260	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1262	ND	350	ug/Kg	08/25/12	AW	SW 8082
PCB-1268	ND	350	ug/Kg	08/25/12	AW	SW 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	77		%	08/25/12	AW	30 - 150 %
% TCMX	83		%	08/25/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	20	18	ug/Kg	08/27/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	08/27/12	MH	SW8081
4,4' -DDT	18	18	ug/Kg	08/27/12	MH	SW8081
a-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Alachlor	ND	17	ug/Kg	08/27/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	08/27/12	MH	SW8081
b-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Chlordane	94	53	ug/Kg	08/27/12	MH	SW8081
d-BHC	ND	17	ug/Kg	08/27/12	MH	SW8081
Dieldrin	9.5	5.3	ug/Kg	08/27/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	08/27/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	08/27/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	08/27/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	08/27/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	08/27/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	08/27/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	08/27/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	08/27/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	08/27/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
% DCBP	83		%	08/27/12	MH	30 - 150 %
% TCMX	89		%	08/27/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	08/25/12	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	08/25/12	R/J	SW8260
Acetone	ND	27	ug/Kg	08/25/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	08/25/12	R/J	SW8260
Benzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	08/25/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	08/25/12	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	08/25/12	R/J	SW8260
Toluene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	08/25/12	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	08/25/12	R/J	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	08/25/12	R/J	70 - 130 %
% Bromofluorobenzene	88		%	08/25/12	R/J	70 - 130 %
% Dibromofluoromethane	110		%	08/25/12	R/J	70 - 130 %
% Toluene-d8	95		%	08/25/12	R/J	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
1,2-Dichlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
1,3-Dichlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
1,4-Dichlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,4-Dichlorophenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,4-Dimethylphenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,4-Dinitrophenol	ND	5500	ug/Kg	08/27/12	DD	SW 8270
2,4-Dinitrotoluene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2,6-Dinitrotoluene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2-Chloronaphthalene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2-Chlorophenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2-Methylnaphthalene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	2400	ug/Kg	08/27/12	DD	SW 8270
2-Nitroaniline	ND	5500	ug/Kg	08/27/12	DD	SW 8270
2-Nitrophenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	3500	ug/Kg	08/27/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	2400	ug/Kg	08/27/12	DD	SW 8270
3-Nitroaniline	ND	5500	ug/Kg	08/27/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	10000	ug/Kg	08/27/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	3500	ug/Kg	08/27/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
4-Chloroaniline	ND	2400	ug/Kg	08/27/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	2400	ug/Kg	08/27/12	DD	SW 8270
4-Nitroaniline	ND	5500	ug/Kg	08/27/12	DD	SW 8270
4-Nitrophenol	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Acenaphthene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Acenaphthylene	ND	2400	ug/Kg	08/27/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Aniline	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Anthracene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Azobenzene	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Benz(a)anthracene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Benzidine	ND	4200	ug/Kg	08/27/12	DD	SW 8270
Benzo(a)pyrene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Benzo(b)fluoranthene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Benzo(ghi)perylene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Benzo(k)fluoranthene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Benzoic acid	ND	10000	ug/Kg	08/27/12	DD	SW 8270
Benzyl butyl phthalate	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	4600	2400	ug/Kg	08/27/12	DD	SW 8270
Carbazole	ND	5200	ug/Kg	08/27/12	DD	SW 8270
Chrysene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Dibenzofuran	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Diethyl phthalate	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Dimethylphthalate	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Di-n-butylphthalate	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Di-n-octylphthalate	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Fluoranthene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Fluorene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Hexachlorobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Hexachlorobutadiene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Hexachloroethane	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Isophorone	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Naphthalene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Nitrobenzene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodimethylamine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	2400	ug/Kg	08/27/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Pentachloronitrobenzene	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Pentachlorophenol	ND	3500	ug/Kg	08/27/12	DD	SW 8270
Phenanthrene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Phenol	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Pyrene	ND	2400	ug/Kg	08/27/12	DD	SW 8270
Pyridine	ND	3500	ug/Kg	08/27/12	DD	SW 8270
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	*Diluted Out		%	08/27/12	DD	30 - 130 %
% 2-Fluorobiphenyl	*Diluted Out		%	08/27/12	DD	40 - 140 %
% 2-Fluorophenol	*Diluted Out		%	08/27/12	DD	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	08/27/12	DD	40 - 140 %
% Phenol-d5	*Diluted Out		%	08/27/12	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	08/27/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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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.  
B = Present in blank, no bias suspected.

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

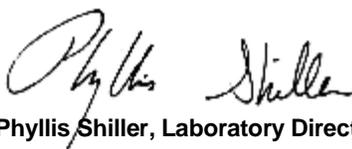
**Comments:**

\* 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.

\* For Pesticides, some of the continuing calibration standard recoveries were below criteria due to a matrix interference in the samples. A negative sample bias is suspected.

All soils 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

### Sample Information

Matrix: WATER  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date                      Time  
 08/23/12                      0:00  
 08/24/12                      15:26

## Laboratory Data

SDG ID: GBC59957  
 Phoenix ID: BC59966

Project ID: 78 THROOP AVE., BROOKLYN  
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1-Dichloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1-Dichloroethene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,1-Dichloropropene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2-Dibromoethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2-Dichloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,2-Dichloropropane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
1,3-Dichloropropane	ND	5.0	ug/L	08/24/12	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
2,2-Dichloropropane	ND	5.0	ug/L	08/24/12	HM	SW8260
2-Chlorotoluene	ND	5.0	ug/L	08/24/12	HM	SW8260
2-Hexanone	ND	25	ug/L	08/24/12	HM	SW8260
2-Isopropyltoluene	ND	5.0	ug/L	08/24/12	HM	SW8260
4-Chlorotoluene	ND	5.0	ug/L	08/24/12	HM	SW8260
4-Methyl-2-pentanone	ND	25	ug/L	08/24/12	HM	SW8260
Acetone	ND	50	ug/L	08/24/12	HM	SW8260

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acrylonitrile	ND	10	ug/L	08/24/12	HM	SW8260
Benzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Bromobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Bromochloromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Bromodichloromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Bromoform	ND	5.0	ug/L	08/24/12	HM	SW8260
Bromomethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	08/24/12	HM	SW8260
Carbon tetrachloride	ND	5.0	ug/L	08/24/12	HM	SW8260
Chlorobenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Chloroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Chloroform	ND	5.0	ug/L	08/24/12	HM	SW8260
Chloromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/L	08/24/12	HM	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/L	08/24/12	HM	SW8260
Dibromochloromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Dibromomethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Dichlorodifluoromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Ethylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Hexachlorobutadiene	ND	5.0	ug/L	08/24/12	HM	SW8260
Isopropylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
m&p-Xylene	ND	5.0	ug/L	08/24/12	HM	SW8260
Methyl Ethyl Ketone	ND	60	ug/L	08/24/12	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/L	08/24/12	HM	SW8260
Methylene chloride	ND	5.0	ug/L	08/24/12	HM	SW8260
Naphthalene	ND	5.0	ug/L	08/24/12	HM	SW8260
n-Butylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
n-Propylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
o-Xylene	ND	5.0	ug/L	08/24/12	HM	SW8260
p-Isopropyltoluene	ND	5.0	ug/L	08/24/12	HM	SW8260
sec-Butylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Styrene	ND	5.0	ug/L	08/24/12	HM	SW8260
tert-Butylbenzene	ND	5.0	ug/L	08/24/12	HM	SW8260
Tetrachloroethene	ND	5.0	ug/L	08/24/12	HM	SW8260
Tetrahydrofuran (THF)	ND	10	ug/L	08/24/12	HM	SW8260
Toluene	ND	5.0	ug/L	08/24/12	HM	SW8260
Total Xylenes	ND	5.0	ug/L	08/24/12	HM	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	08/24/12	HM	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/L	08/24/12	HM	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/L	08/24/12	HM	SW8260
Trichloroethene	ND	5.0	ug/L	08/24/12	HM	SW8260
Trichlorofluoromethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/L	08/24/12	HM	SW8260
Vinyl chloride	ND	5.0	ug/L	08/24/12	HM	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	94		%	08/24/12	HM	70 - 130 %
% Bromofluorobenzene	97		%	08/24/12	HM	70 - 130 %
% Dibromofluoromethane	103		%	08/24/12	HM	70 - 130 %
% Toluene-d8	98		%	08/24/12	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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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 Quantitation) ND=Not Detected

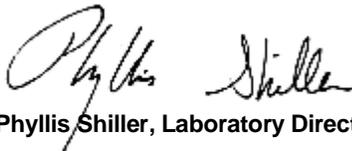
BRL=Below Reporting Level

**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**

**September 05, 2012**

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



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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# QA/QC Report

September 05, 2012

## QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 207891, QC Sample No: BC59961 (BC59957, BC59958, BC59959, BC59960, BC59961, BC59962, BC59963, BC59964, BC59965)													
<u>ICP Metals - Soil</u>													
Aluminum	BRL	7660	6120	22.4	103	106	2.9	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.5	<3.9	NC	115	124	7.5	88.9	91.9	3.3	75 - 125	30	
Arsenic	BRL	6.8	5.96	13.2	98.3	102	3.7	103	104	1.0	75 - 125	30	
Barium	BRL	515	340	40.9	96.7	105	8.2	41.9	59.6	34.9	75 - 125	30	m,r
Beryllium	BRL	0.42	0.32	NC	97.7	102	4.3	100	101	1.0	75 - 125	30	
Cadmium	BRL	0.86	0.84	NC	99.2	102	2.8	99.5	102	2.5	75 - 125	30	
Calcium	BRL	25900	23000	11.9	104	106	1.9	NC	NC	NC	75 - 125	30	
Chromium	BRL	35.4	17.9	65.7	102	107	4.8	92.3	94.1	1.9	75 - 125	30	r
Cobalt	BRL	6.74	5.31	23.7	100	105	4.9	99.2	101	1.8	75 - 125	30	
Copper	0.50	45.5	38.2	17.4	98.1	102	3.9	105	99.1	5.8	75 - 125	30	
Iron	BRL	18000	14600	20.9	110	111	0.9	NC	NC	NC	75 - 125	30	
Lead	BRL	677	524	25.5	101	107	5.8	83.2	76.6	8.3	75 - 125	30	
Magnesium	BRL	4440	3400	26.5	109	114	4.5	NC	NC	NC	75 - 125	30	
Manganese	BRL	256	250	2.40	111	116	4.4	>130	120	NC	75 - 125	30	m
Nickel	BRL	14.8	12.2	19.3	99.2	105	5.7	100	102	2.0	75 - 125	30	
Potassium	BRL	864	772	11.2	86.7	89.1	2.7	121	>130	NC	75 - 125	30	m
Selenium	BRL	<1.4	<1.5	NC	84.9	90.2	6.1	95.0	97.1	2.2	75 - 125	30	
Silver	BRL	<0.35	<0.39	NC	106	111	4.6	109	104	4.7	75 - 125	30	
Sodium	BRL	330	356	7.60	94.1	96.1	2.1	>130	>130	NC	75 - 125	30	m
Thallium	BRL	<3.2	<3.5	NC	98.4	105	6.5	98.9	101	2.1	75 - 125	30	
Vanadium	BRL	25.0	19.4	25.2	105	111	5.6	99.6	103	3.4	75 - 125	30	
Zinc	BRL	394	370	6.30	105	109	3.7	>130	>130	NC	75 - 125	30	m
QA/QC Batch 207934, QC Sample No: BC59961 (BC59957, BC59958, BC59959, BC59960, BC59961, BC59962, BC59963, BC59964, BC59965)													
Mercury - Soil	BRL	2.54	2.08	19.9	99.0	93.0	6.3	<30	<30	NC	70 - 130	30	m

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



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# QA/QC Report

September 05, 2012

## QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 207980, QC Sample No: BC58979 (BC59966)									
<u>Volatiles - Water</u>									
1,1,1,2-Tetrachloroethane	ND	109	111	1.8	92	96	4.3	70 - 130	30
1,1,1-Trichloroethane	ND	103	108	4.7	92	96	4.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	90	96	6.5	87	87	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	103	106	2.9	87	94	7.7	70 - 130	30
1,1-Dichloroethane	ND	97	100	3.0	89	96	7.6	70 - 130	30
1,1-Dichloroethene	ND	89	90	1.1	90	93	3.3	70 - 130	30
1,1-Dichloropropene	ND	106	107	0.9	94	99	5.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	112	122	8.5	82	100	19.8	70 - 130	30
1,2,3-Trichloropropane	ND	97	98	1.0	88	93	5.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	105	114	8.2	85	95	11.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	108	112	3.6	90	97	7.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	99	115	15.0	81	93	13.8	70 - 130	30
1,2-Dibromoethane	ND	104	104	0.0	89	94	5.5	70 - 130	30
1,2-Dichlorobenzene	ND	97	99	2.0	82	89	8.2	70 - 130	30
1,2-Dichloroethane	ND	103	105	1.9	92	96	4.3	70 - 130	30
1,2-Dichloropropane	ND	98	97	1.0	88	93	5.5	70 - 130	30
1,3,5-Trimethylbenzene	ND	104	108	3.8	88	93	5.5	70 - 130	30
1,3-Dichlorobenzene	ND	103	109	5.7	90	95	5.4	70 - 130	30
1,3-Dichloropropane	ND	104	104	0.0	89	94	5.5	70 - 130	30
1,4-Dichlorobenzene	ND	100	105	4.9	89	94	5.5	70 - 130	30
2,2-Dichloropropane	ND	112	113	0.9	96	98	2.1	70 - 130	30
2-Chlorotoluene	ND	93	98	5.2	80	87	8.4	70 - 130	30
2-Hexanone	ND	108	113	4.5	91	97	6.4	70 - 130	30
2-Isopropyltoluene	ND	101	107	5.8	100	108	7.7	70 - 130	30
4-Chlorotoluene	ND	102	108	5.7	92	98	6.3	70 - 130	30
4-Methyl-2-pentanone	ND	94	102	8.2	96	102	6.1	70 - 130	30
Acetone	ND	108	116	7.1	75	62	19.0	70 - 130	30
Acrylonitrile	ND	92	92	0.0	99	105	5.9	70 - 130	30
Benzene	ND	101	102	1.0	90	97	7.5	70 - 130	30
Bromobenzene	ND	101	109	7.6	89	93	4.4	70 - 130	30
Bromochloromethane	ND	104	101	2.9	91	96	5.3	70 - 130	30
Bromodichloromethane	ND	104	105	1.0	93	97	4.2	70 - 130	30
Bromoform	ND	116	119	2.6	97	108	10.7	70 - 130	30
Bromomethane	ND	81	86	6.0	92	97	5.3	70 - 130	30
Carbon Disulfide	ND	87	87	0.0	96	101	5.1	70 - 130	30
Carbon tetrachloride	ND	112	112	0.0	94	102	8.2	70 - 130	30
Chlorobenzene	ND	103	102	1.0	90	95	5.4	70 - 130	30
Chloroethane	ND	80	79	1.3	90	94	4.3	70 - 130	30
Chloroform	ND	101	103	2.0	91	96	5.3	70 - 130	30
Chloromethane	ND	88	89	1.1	99	102	3.0	70 - 130	30
cis-1,2-Dichloroethene	ND	102	104	1.9	90	96	6.5	70 - 130	30

m

QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	102	102	0.0	90	95	5.4	70 - 130	30
Dibromochloromethane	ND	112	112	0.0	92	96	4.3	70 - 130	30
Dibromomethane	ND	102	102	0.0	91	99	8.4	70 - 130	30
Dichlorodifluoromethane	ND	111	110	0.9	128	140	9.0	70 - 130	30
Ethylbenzene	ND	107	107	0.0	91	95	4.3	70 - 130	30
Hexachlorobutadiene	ND	101	107	5.8	87	92	5.6	70 - 130	30
Isopropylbenzene	ND	100	106	5.8	89	95	6.5	70 - 130	30
m&p-Xylene	ND	108	109	0.9	93	97	4.2	70 - 130	30
Methyl ethyl ketone	ND	99	105	5.9	82	88	7.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	105	107	1.9	98	100	2.0	70 - 130	30
Methylene chloride	ND	79	82	3.7	83	88	5.8	70 - 130	30
Naphthalene	ND	111	127	13.4	78	105	29.5	70 - 130	30
n-Butylbenzene	ND	105	109	3.7	88	93	5.5	70 - 130	30
n-Propylbenzene	ND	92	96	4.3	85	89	4.6	70 - 130	30
o-Xylene	ND	104	105	1.0	96	99	3.1	70 - 130	30
p-Isopropyltoluene	ND	110	115	4.4	89	96	7.6	70 - 130	30
sec-Butylbenzene	ND	104	109	4.7	91	98	7.4	70 - 130	30
Styrene	ND	104	107	2.8	97	101	4.0	70 - 130	30
tert-Butylbenzene	ND	99	103	4.0	84	91	8.0	70 - 130	30
Tetrachloroethene	ND	110	109	0.9	90	96	6.5	70 - 130	30
Tetrahydrofuran (THF)	ND	88	90	2.2	91	100	9.4	70 - 130	30
Toluene	ND	103	101	2.0	91	96	5.3	70 - 130	30
trans-1,2-Dichloroethene	ND	96	95	1.0	93	97	4.2	70 - 130	30
trans-1,3-Dichloropropene	ND	105	107	1.9	93	98	5.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	110	118	7.0	111	114	2.7	70 - 130	30
Trichloroethene	ND	107	107	0.0	93	96	3.2	70 - 130	30
Trichlorofluoromethane	ND	107	107	0.0	99	106	6.8	70 - 130	30
Trichlorotrifluoroethane	ND	95	95	0.0	99	108	8.7	70 - 130	30
Vinyl chloride	ND	88	89	1.1	93	100	7.3	70 - 130	30
% 1,2-dichlorobenzene-d4	96	94	96	2.1	96	98	2.1	70 - 130	30
% Bromofluorobenzene	96	103	101	2.0	103	101	2.0	70 - 130	30
% Dibromofluoromethane	104	99	105	5.9	108	102	5.7	70 - 130	30
% Toluene-d8	98	98	98	0.0	99	100	1.0	70 - 130	30

m

QA/QC Batch 208064, QC Sample No: BC59960 (BC59960, BC59962, BC59964, BC59965)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	104	105	1.0				70 - 130	30
1,1,1-Trichloroethane	ND	105	102	2.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	87	93	6.7				70 - 130	30
1,1,2-Trichloroethane	ND	101	108	6.7				70 - 130	30
1,1-Dichloroethane	ND	101	102	1.0				70 - 130	30
1,1-Dichloroethene	ND	93	94	1.1				70 - 130	30
1,1-Dichloropropene	ND	108	102	5.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	100	91	9.4				70 - 130	30
1,2,3-Trichloropropane	ND	91	104	13.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	94	83	12.4				70 - 130	30
1,2,4-Trimethylbenzene	ND	102	94	8.2				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	93	104	11.2				70 - 130	30
1,2-Dibromoethane	ND	99	109	9.6				70 - 130	30
1,2-Dichlorobenzene	ND	93	91	2.2				70 - 130	30
1,2-Dichloroethane	ND	97	103	6.0				70 - 130	30
1,2-Dichloropropane	ND	103	104	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	103	95	8.1				70 - 130	30

## QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichlorobenzene	ND	95	89	6.5				70 - 130	30
1,3-Dichloropropane	ND	97	102	5.0				70 - 130	30
1,4-Dichlorobenzene	ND	92	86	6.7				70 - 130	30
2,2-Dichloropropane	ND	101	98	3.0				70 - 130	30
2-Chlorotoluene	ND	99	92	7.3				70 - 130	30
2-Hexanone	ND	66	74	11.4				70 - 130	30
2-Isopropyltoluene	ND	100	90	10.5				70 - 130	30
4-Chlorotoluene	ND	94	88	6.6				70 - 130	30
4-Methyl-2-pentanone	ND	85	97	13.2				70 - 130	30
Acetone	ND	64	71	10.4				70 - 130	30
Acrylonitrile	ND	86	102	17.0				70 - 130	30
Benzene	ND	105	103	1.9				70 - 130	30
Bromobenzene	ND	98	96	2.1				70 - 130	30
Bromochloromethane	ND	98	106	7.8				70 - 130	30
Bromodichloromethane	ND	102	104	1.9				70 - 130	30
Bromoform	ND	100	109	8.6				70 - 130	30
Bromomethane	ND	85	82	3.6				70 - 130	30
Carbon Disulfide	ND	88	91	3.4				70 - 130	30
Carbon tetrachloride	ND	107	103	3.8				70 - 130	30
Chlorobenzene	ND	98	95	3.1				70 - 130	30
Chloroethane	ND	84	87	3.5				70 - 130	30
Chloroform	ND	99	101	2.0				70 - 130	30
Chloromethane	ND	90	88	2.2				70 - 130	30
cis-1,2-Dichloroethene	ND	106	103	2.9				70 - 130	30
cis-1,3-Dichloropropene	ND	98	100	2.0				70 - 130	30
Dibromochloromethane	ND	101	106	4.8				70 - 130	30
Dibromomethane	ND	96	105	9.0				70 - 130	30
Dichlorodifluoromethane	ND	87	82	5.9				70 - 130	30
Ethylbenzene	ND	104	97	7.0				70 - 130	30
Hexachlorobutadiene	ND	105	85	21.1				70 - 130	30
Isopropylbenzene	ND	103	94	9.1				70 - 130	30
m&p-Xylene	ND	101	94	7.2				70 - 130	30
Methyl ethyl ketone	ND	74	79	6.5				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	92	99	7.3				70 - 130	30
Methylene chloride	ND	76	83	8.8				70 - 130	30
Naphthalene	ND	105	97	7.9				70 - 130	30
n-Butylbenzene	ND	104	87	17.8				70 - 130	30
n-Propylbenzene	ND	97	89	8.6				70 - 130	30
o-Xylene	ND	100	95	5.1				70 - 130	30
p-Isopropyltoluene	ND	108	95	12.8				70 - 130	30
sec-Butylbenzene	ND	101	90	11.5				70 - 130	30
Styrene	ND	97	97	0.0				70 - 130	30
tert-Butylbenzene	ND	104	94	10.1				70 - 130	30
Tetrachloroethene	ND	103	96	7.0				70 - 130	30
Tetrahydrofuran (THF)	ND	83	101	19.6				70 - 130	30
Toluene	ND	104	101	2.9				70 - 130	30
trans-1,2-Dichloroethene	ND	100	98	2.0				70 - 130	30
trans-1,3-Dichloropropene	ND	97	101	4.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	85	93	9.0				70 - 130	30
Trichloroethene	ND	110	105	4.7				70 - 130	30
Trichlorofluoromethane	ND	98	97	1.0				70 - 130	30
Trichlorotrifluoroethane	ND	92	91	1.1				70 - 130	30
Vinyl chloride	ND	89	86	3.4				70 - 130	30

## QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCS D %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	103	98	100	2.0				70 - 130	30
% Bromofluorobenzene	95	99	100	1.0				70 - 130	30
% Dibromofluoromethane	105	97	104	7.0				70 - 130	30
% Toluene-d8	98	99	101	2.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

QA/QC Batch 207878, QC Sample No: BC59961 (BC59957, BC59958, BC59959, BC59960, BC59961, BC59962, BC59963, BC59964, BC59965)

### Pesticides - Soil

4,4' -DDD	ND	90	77	15.6	101	115	13.0	40 - 140	30
4,4' -DDE	ND	91	80	12.9	126*	>130*	NC	40 - 140	30
4,4' -DDT	ND	85	74	13.8	>130*	>130*	NC	40 - 140	30
a-BHC	ND	87	79	9.6	90	95	5.4	40 - 140	30
a-Chlordane	ND	92	82	11.5	>130*	>130*	NC	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	92	83	10.3	96	102	6.1	40 - 140	30
b-BHC	ND	92	83	10.3	93	96	3.2	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	89	81	9.4	91	97	6.4	40 - 140	30
Dieldrin	ND	93	82	12.6	94*	101*	NC	40 - 140	30
Endosulfan I	ND	95	83	13.5	96	103	7.0	40 - 140	30
Endosulfan II	ND	83	79	4.9	83	109	27.1	40 - 140	30
Endosulfan sulfate	ND	85	77	9.9	84	90	6.9	40 - 140	30
Endrin	ND	89	77	14.5	82	89	8.2	40 - 140	30
Endrin aldehyde	ND	83	79	4.9	124	126	1.6	40 - 140	30
Endrin ketone	ND	96	85	12.2	90	94	4.3	40 - 140	30
g-BHC	ND	93	85	9.0	96	102	6.1	40 - 140	30
g-Chlordane	ND	94	83	12.4	>130*	>130*	NC	40 - 140	30
Heptachlor	ND	88	79	10.8	85	90	5.7	40 - 140	30
Heptachlor epoxide	ND	92	82	11.5	95	100	5.1	40 - 140	30
Methoxychlor	ND	85	74	13.8	98	104	5.9	40 - 140	30
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	105	101	91	10.4	108	Intf	NC	30 - 150	30
% TCMX	96	95	86	9.9	96	101	5.1	30 - 150	30

QA/QC Batch 207877, QC Sample No: BC59961 (BC59957, BC59958, BC59959, BC59960, BC59961, BC59962, BC59963, BC59964, BC59965)

### Polychlorinated Biphenyls - Soil

PCB-1016	ND	88	91	3.4	99	108	8.7	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	91	96	5.3	135	142	5.1	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	101	99	105	5.9	109	121	10.4	30 - 150	30
% TCMX (Surrogate Rec)	89	87	93	6.7	93	103	10.2	30 - 150	30

QA/QC Batch 208058, QC Sample No: BC59961 (BC59957, BC59958 (100X) , BC59959, BC59961, BC59963)

### Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	109	109	0.0	92	91	1.1	70 - 130	30
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QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	106	105	0.9	96	99	3.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	92	99	7.3	85	78	8.6	70 - 130	30
1,1,2-Trichloroethane	ND	101	108	6.7	93	86	7.8	70 - 130	30
1,1-Dichloroethane	ND	101	103	2.0	92	93	1.1	70 - 130	30
1,1-Dichloroethene	ND	92	95	3.2	83	83	0.0	70 - 130	30
1,1-Dichloropropene	ND	109	106	2.8	94	97	3.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	114	109	4.5	85	90	5.7	70 - 130	30
1,2,3-Trichloropropane	ND	95	102	7.1	90	76	16.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	118	110	7.0	86	92	6.7	70 - 130	30
1,2,4-Trimethylbenzene	ND	110	105	4.7	91	94	3.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	94	107	12.9	86	82	4.8	70 - 130	30
1,2-Dibromoethane	ND	101	109	7.6	98	87	11.9	70 - 130	30
1,2-Dichlorobenzene	ND	101	100	1.0	86	86	0.0	70 - 130	30
1,2-Dichloroethane	ND	100	106	5.8	93	89	4.4	70 - 130	30
1,2-Dichloropropane	ND	103	105	1.9	91	90	1.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	110	104	5.6	92	95	3.2	70 - 130	30
1,3-Dichlorobenzene	ND	107	104	2.8	88	90	2.2	70 - 130	30
1,3-Dichloropropane	ND	97	103	6.0	88	84	4.7	70 - 130	30
1,4-Dichlorobenzene	ND	105	102	2.9	88	90	2.2	70 - 130	30
2,2-Dichloropropane	ND	111	109	1.8	92	95	3.2	70 - 130	30
2-Chlorotoluene	ND	106	102	3.8	89	92	3.3	70 - 130	30
2-Hexanone	ND	86	93	7.8	64	53	18.8	70 - 130	30 m
2-Isopropyltoluene	ND	104	95	9.0	99	104	4.9	70 - 130	30
4-Chlorotoluene	ND	104	99	4.9	91	93	2.2	70 - 130	30
4-Methyl-2-pentanone	ND	91	101	10.4	95	81	15.9	70 - 130	30
Acetone	ND	90	101	11.5	57	<40	NC	70 - 130	30 m
Acrylonitrile	ND	86	98	13.0	104	91	13.3	70 - 130	30
Benzene	ND	106	104	1.9	92	92	0.0	70 - 130	30
Bromobenzene	ND	106	103	2.9	86	87	1.2	70 - 130	30
Bromochloromethane	ND	101	106	4.8	93	90	3.3	70 - 130	30
Bromodichloromethane	ND	105	109	3.7	93	90	3.3	70 - 130	30
Bromoform	ND	105	114	8.2	91	83	9.2	70 - 130	30
Bromomethane	ND	82	80	2.5	54	62	13.8	70 - 130	30 m
Carbon Disulfide	ND	88	94	6.6	85	82	3.6	70 - 130	30
Carbon tetrachloride	ND	110	107	2.8	92	99	7.3	70 - 130	30
Chlorobenzene	ND	102	99	3.0	90	90	0.0	70 - 130	30
Chloroethane	ND	84	88	4.7	<40	<40	NC	70 - 130	30 m
Chloroform	ND	101	103	2.0	91	92	1.1	70 - 130	30
Chloromethane	ND	88	87	1.1	92	97	5.3	70 - 130	30
cis-1,2-Dichloroethene	ND	106	105	0.9	92	97	5.3	70 - 130	30
cis-1,3-Dichloropropene	ND	105	108	2.8	94	90	4.3	70 - 130	30
Dibromochloromethane	ND	106	111	4.6	91	86	5.6	70 - 130	30
Dibromomethane	ND	99	105	5.9	91	86	5.6	70 - 130	30
Dichlorodifluoromethane	ND	85	81	4.8	100	105	4.9	70 - 130	30
Ethylbenzene	ND	106	102	3.8	92	94	2.2	70 - 130	30
Hexachlorobutadiene	ND	116	98	16.8	90	101	11.5	70 - 130	30
Isopropylbenzene	ND	107	100	6.8	91	95	4.3	70 - 130	30
m&p-Xylene	ND	106	102	3.8	92	94	2.2	70 - 130	30
Methyl ethyl ketone	ND	91	97	6.4	73	55	28.1	70 - 130	30 m
Methyl t-butyl ether (MTBE)	ND	95	101	6.1	95	88	7.7	70 - 130	30
Methylene chloride	ND	71	79	10.7	67	59	12.7	70 - 130	30 m
Naphthalene	ND	108	101	6.7	94	95	1.1	70 - 130	30
n-Butylbenzene	ND	115	103	11.0	90	98	8.5	70 - 130	30

QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Propylbenzene	ND	104	97	7.0	91	95	4.3	70 - 130	30
o-Xylene	ND	102	100	2.0	96	96	0.0	70 - 130	30
p-Isopropyltoluene	ND	116	107	8.1	92	97	5.3	70 - 130	30
sec-Butylbenzene	ND	105	97	7.9	90	95	5.4	70 - 130	30
Styrene	ND	101	104	2.9	96	94	2.1	70 - 130	30
tert-Butylbenzene	ND	107	99	7.8	93	96	3.2	70 - 130	30
Tetrachloroethene	ND	109	103	5.7	91	96	5.3	70 - 130	30
Tetrahydrofuran (THF)	ND	83	97	15.6	100	87	13.9	70 - 130	30
Toluene	ND	106	105	0.9	94	94	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	102	102	0.0	91	93	2.2	70 - 130	30
trans-1,3-Dichloropropene	ND	106	110	3.7	93	87	6.7	70 - 130	30
trans-1,4-dichloro-2-butene	ND	98	104	5.9	94	85	10.1	70 - 130	30
Trichloroethene	ND	109	107	1.9	93	95	2.1	70 - 130	30
Trichlorofluoromethane	ND	98	98	0.0	<40	43	NC	70 - 130	30 m
Trichlorotrifluoroethane	ND	94	93	1.1	97	94	3.1	70 - 130	30
Vinyl chloride	ND	88	85	3.5	88	91	3.4	70 - 130	30
% 1,2-dichlorobenzene-d4	103	99	99	0.0	97	97	0.0	70 - 130	30
% Bromofluorobenzene	97	100	99	1.0	105	101	3.9	70 - 130	30
% Dibromofluoromethane	106	99	102	3.0	98	98	0.0	70 - 130	30
% Toluene-d8	99	98	99	1.0	101	101	0.0	70 - 130	30

QA/QC Batch 207876, QC Sample No: BC59961 (BC59957, BC59958, BC59959, BC59960, BC59961, BC59962, BC59963, BC59964, BC59965)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	80	81	1.2	89	95	6.5	30 - 130	30
1,2,4-Trichlorobenzene	ND	74	76	2.7	88	91	3.4	30 - 130	30
1,2-Dichlorobenzene	ND	72	74	2.7	83	87	4.7	30 - 130	30
1,3-Dichlorobenzene	ND	68	70	2.9	81	84	3.6	30 - 130	30
1,4-Dichlorobenzene	ND	70	73	4.2	82	86	4.8	30 - 130	30
2,4,5-Trichlorophenol	ND	84	87	3.5	86	87	1.2	30 - 130	30
2,4,6-Trichlorophenol	ND	80	83	3.7	90	92	2.2	30 - 130	30
2,4-Dichlorophenol	ND	65	87	28.9	93	96	3.2	30 - 130	30
2,4-Dimethylphenol	ND	53	55	3.7	60	59	1.7	30 - 130	30
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30 l,m
2,4-Dinitrotoluene	ND	81	81	0.0	73	76	4.0	30 - 130	30
2,6-Dinitrotoluene	ND	76	77	1.3	80	84	4.9	30 - 130	30
2-Chloronaphthalene	ND	76	78	2.6	89	91	2.2	30 - 130	30
2-Chlorophenol	ND	69	72	4.3	79	84	6.1	30 - 130	30
2-Methylnaphthalene	ND	75	77	2.6	87	89	2.3	30 - 130	30
2-Methylphenol (o-cresol)	ND	77	79	2.6	75	77	2.6	30 - 130	30
2-Nitroaniline	ND	>150	>150	NC	135	140	3.6	30 - 130	30 l,m
2-Nitrophenol	ND	74	75	1.3	86	89	3.4	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	76	77	1.3	81	86	6.0	30 - 130	30
3,3'-Dichlorobenzidine	ND	>150	>150	NC	120	128	6.5	30 - 130	30 l
3-Nitroaniline	ND	85	87	2.3	104	112	7.4	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	18	18	0.0	31	28	10.2	30 - 130	30 l,m
4-Bromophenyl phenyl ether	ND	82	83	1.2	82	85	3.6	30 - 130	30
4-Chloro-3-methylphenol	ND	90	92	2.2	87	93	6.7	30 - 130	30
4-Chloroaniline	ND	>150	>150	NC	64	75	15.8	30 - 130	30 l
4-Chlorophenyl phenyl ether	ND	80	83	3.7	94	95	1.1	30 - 130	30
4-Nitroaniline	ND	85	87	2.3	84	88	4.7	30 - 130	30
4-Nitrophenol	ND	89	87	2.3	76	79	3.9	30 - 130	30
Acenaphthene	ND	78	79	1.3	97	101	4.0	30 - 130	30

## QA/QC Data

SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acenaphthylene	ND	76	78	2.6	95	97	2.1	30 - 130	30	
Acetophenone	ND	74	75	1.3	87	93	6.7	30 - 130	30	
Aniline	ND	148	>150	NC	62	67	7.8	30 - 130	30	l
Anthracene	ND	79	81	2.5	110	114	3.6	30 - 130	30	
Azobenzene	ND	76	78	2.6	80	82	2.5	30 - 130	30	
Benz(a)anthracene	ND	78	79	1.3	78	86	9.8	30 - 130	30	
Benzidine	ND	47	43	8.9	<5	<5	NC	30 - 130	30	m
Benzo(a)pyrene	ND	74	76	2.7	68	78	13.7	30 - 130	30	
Benzo(b)fluoranthene	ND	79	81	2.5	51	88	53.2	30 - 130	30	r
Benzo(ghi)perylene	ND	75	73	2.7	45	35	25.0	30 - 130	30	
Benzo(k)fluoranthene	ND	74	78	5.3	119	102	15.4	30 - 130	30	
Benzyl butyl phthalate	ND	70	72	2.8	>150	>150	NC	30 - 130	30	m
Bis(2-chloroethoxy)methane	ND	74	75	1.3	86	85	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	58	59	1.7	78	84	7.4	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	62	64	3.2	67	70	4.4	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	64	66	3.1	119	125	4.9	30 - 130	30	
Carbazole	ND	>150	>150	NC	120	126	4.9	30 - 130	30	l
Chrysene	ND	73	76	4.0	68	71	4.3	30 - 130	30	
Dibenz(a,h)anthracene	ND	79	79	0.0	74	66	11.4	30 - 130	30	
Dibenzofuran	ND	80	83	3.7	91	94	3.2	30 - 130	30	
Diethyl phthalate	ND	81	83	2.4	90	95	5.4	30 - 130	30	
Dimethylphthalate	ND	79	81	2.5	89	91	2.2	30 - 130	30	
Di-n-butylphthalate	ND	74	76	2.7	89	92	3.3	30 - 130	30	
Di-n-octylphthalate	ND	71	71	0.0	101	103	2.0	30 - 130	30	
Fluoranthene	ND	82	83	1.2	67	71	5.8	30 - 130	30	
Fluorene	ND	79	82	3.7	100	102	2.0	30 - 130	30	
Hexachlorobenzene	ND	74	77	4.0	94	95	1.1	30 - 130	30	
Hexachlorobutadiene	ND	77	79	2.6	93	95	2.1	30 - 130	30	
Hexachlorocyclopentadiene	ND	65	61	6.3	<5	<5	NC	30 - 130	30	m
Hexachloroethane	ND	70	71	1.4	64	67	4.6	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	78	77	1.3	56	44	24.0	30 - 130	30	
Isophorone	ND	77	79	2.6	84	87	3.5	30 - 130	30	
Naphthalene	ND	62	63	1.6	76	78	2.6	30 - 130	30	
Nitrobenzene	ND	75	76	1.3	82	87	5.9	30 - 130	30	
N-Nitrosodimethylamine	ND	38	43	12.3	67	68	1.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	71	73	2.8	79	83	4.9	30 - 130	30	
N-Nitrosodiphenylamine	ND	98	100	2.0	96	98	2.1	30 - 130	30	
Pentachloronitrobenzene	ND	75	75	0.0	73	75	2.7	30 - 130	30	
Pentachlorophenol	ND	48	51	6.1	67	68	1.5	30 - 130	30	
Phenanthrene	ND	78	81	3.8	79	88	10.8	30 - 130	30	
Phenol	ND	73	75	2.7	81	87	7.1	30 - 130	30	
Pyrene	ND	84	85	1.2	65	69	6.0	30 - 130	30	
Pyridine	ND	38	42	10.0	51	49	4.0	30 - 130	30	
% 2,4,6-Tribromophenol	75	78	80	2.5	88	92	4.4	30 - 130	30	
% 2-Fluorobiphenyl	64	72	74	2.7	81	84	3.6	40 - 140	30	
% 2-Fluorophenol	62	67	68	1.5	72	74	2.7	30 - 130	30	
% Nitrobenzene-d5	69	72	73	1.4	80	85	6.1	40 - 140	30	
% Phenol-d5	63	70	73	4.2	74	80	7.8	30 - 130	30	
% Terphenyl-d14	77	86	87	1.2	76	78	2.6	40 - 140	30	

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.

QA/QC Data

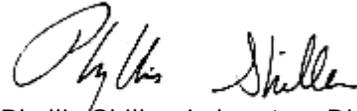
SDG I.D.: GBC59957

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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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  
September 05, 2012

# Sample Criteria Exceedences Report

Requested Criteria: None

State: NY

## GBC59957 - EBC

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* 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.



6 of 1

NYNJ CHAIN OF CUSTODY RECORD



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

Client Services (860) 645-8726

Data Delivery:  
 Fax #:  
 Email:

Email: csosiv@esblab.com

Customer: ELG  
 Address: 658 Middlebury Rd  
Ridge Mt

Project: 78 Wray Ave, Brooklyn, NY  
 Report to: Same  
 Invoice to: Same

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

Client Sample - Information - Identification  
 Sampler's Signature: [Signature] Date: 8-23-12

Analysis Request  
Labels are in 100 & 250 ml bottles  
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Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
82957	SB-1 0-2	S	8-23-12	730
82958	SB-1 8-10			745
82959	SB-2 0-2			800
82960	SB-2 8-10			815
82961	SB-3 0-2			900
82962	SB-3 8-10			915
82963	SB-4 0-2			1000
82964	SB-4 8-10			1015
82965	Duplicate			
82966	Trig Blank			

Refrigerated by: [Signature]  
 Accepted by: [Signature]  
 Date: 8-24-12 Time: 9:15  
8-24-12 15:00

Comments, Special Requirements or Regulations:  
\* SUN MSJMSD ON sample ID SB3 0-2

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 Soil  
 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



Wednesday, September 05, 2012

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

Project ID: 78 THROOP AVE  
Sample ID#s: BC61162 - BC61166, BC61243

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 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,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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



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

**Analysis Report**  
 September 05, 2012

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

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      0:00  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61162

Project ID: 78 THROOP AVE  
 Client ID: GW 1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Aluminum	1.16	0.010	mg/L	08/29/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	08/29/12	LK	SW6010
Barium	0.083	0.002	mg/L	08/29/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Calcium	202	0.10	mg/L	08/30/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Cobalt	0.022	0.002	mg/L	08/29/12	LK	SW6010
Chromium	0.002	0.001	mg/L	08/29/12	LK	SW6010
Copper	0.114	0.005	mg/L	08/29/12	LK	SW6010
Iron	1.36	0.010	mg/L	08/29/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	08/29/12	RS	SW7470
Potassium	17.7	0.1	mg/L	08/29/12	LK	SW6010
Magnesium	22.5	0.01	mg/L	08/29/12	LK	SW6010
Manganese	1.58	0.001	mg/L	08/29/12	LK	SW6010
Sodium	49.5	1.0	mg/L	08/30/12	LK	SW6010
Nickel	0.055	0.001	mg/L	08/29/12	LK	SW6010
Lead	< 0.002	0.002	mg/L	08/29/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	08/29/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	08/29/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	08/29/12	RS	SW7010
Vanadium	0.006	0.002	mg/L	08/29/12	LK	SW6010
Zinc	0.007	0.002	mg/L	08/29/12	LK	SW6010
Mercury Digestion	Completed			08/29/12	X/X	SW7470
PCB Extraction	Completed			08/28/12	L/T	SW3510C
Extraction for Pest (2 Liter)	Completed			08/28/12	L	SW3510
Semi-Volatile Extraction	Completed			08/29/12	F/K/D	SW3520
Total Metals Digestion	Completed			08/28/12	AG	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1221	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1232	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1242	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1248	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1254	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1260	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1262	ND	0.11	ug/L	08/29/12	AW	608/ 8082
PCB-1268	ND	0.11	ug/L	08/29/12	AW	608/ 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	97		%	08/29/12	AW	30 - 150 %
% TCMX	54		%	08/29/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	08/30/12	MH	SW8081
a-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Alachlor	ND	0.1	ug/L	08/30/12	MH	SW8081
Aldrin	ND	0.003	ug/L	08/30/12	MH	SW8081
b-BHC	ND	0.01	ug/L	08/30/12	MH	SW8081
Chlordane	ND	0.3	ug/L	08/30/12	MH	SW8081
d-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Dieldrin	0.006	0.002	ug/L	08/30/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	08/30/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	08/30/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	08/30/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	08/30/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	08/30/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	08/30/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	117		%	08/30/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	84		%	08/30/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	08/28/12	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Acetone	ND	25	ug/L	08/28/12	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	08/28/12	H/T	SW8260
Benzene	ND	0.70	ug/L	08/28/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	08/28/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,2-Dichloroethene	14	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	08/28/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Styrene	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
tert-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Tetrachloroethene	1.4	1.0	ug/L	08/28/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	08/28/12	H/T	SW8260
Toluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	08/28/12	H/T	SW8260
Trichloroethene	1.5	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	99		%	08/28/12	H/T	70 - 130 %
% Bromofluorobenzene	101		%	08/28/12	H/T	70 - 130 %
% Dibromofluoromethane	117		%	08/28/12	H/T	70 - 130 %
% Toluene-d8	103		%	08/28/12	H/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4,6-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dinitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chloronaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2-Methylnaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
2-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
2-Nitrophenol	ND	11	ug/L	08/31/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	56	ug/L	08/31/12	DD	SW8270
3-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	56	ug/L	08/31/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Chloro-3-methylphenol	ND	22	ug/L	08/31/12	DD	SW8270
4-Chloroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Nitroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Nitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
Acetophenone	ND	5.6	ug/L	08/31/12	DD	SW8270
Aniline	ND	11	ug/L	08/31/12	DD	SW8270
Anthracene	ND	5.6	ug/L	08/31/12	DD	SW8270
Azobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270

Client ID: GW 1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzidine	ND	56	ug/L	08/31/12	DD	SW8270
Benzoic acid	ND	56	ug/L	08/31/12	DD	SW8270
Benzyl butyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Carbazole	ND	5.6	ug/L	08/31/12	DD	SW8270
Dibenzofuran	ND	5.6	ug/L	08/31/12	DD	SW8270
Diethyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Dimethylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-butylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-octylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluoranthene	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluorene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorobutadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Isophorone	ND	5.6	ug/L	08/31/12	DD	SW8270
Naphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
Nitrobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
Phenol	ND	11	ug/L	08/31/12	DD	SW8270
Pyrene	ND	5.6	ug/L	08/31/12	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	91		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	70		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	67		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	57		%	08/31/12	DD	40 - 140 %
% Phenol-d5	67		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	109		%	08/31/12	DD	40 - 140 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.044	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.3	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Chrysene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.011	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.067	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.7	ug/L	08/31/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.89	ug/L	08/31/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)

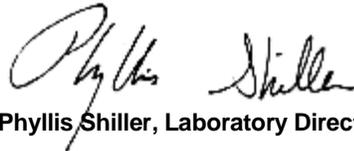
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyridine	ND	0.56	ug/L	08/31/12	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	91		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	70		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	67		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	57		%	08/31/12	DD	40 - 140 %
% Phenol-d5	67		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	109		%	08/31/12	DD	40 - 140 %

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 Quantitation) 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      0:00  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61163

Project ID: 78 THROOP AVE  
 Client ID: GW 2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Aluminum	0.541	0.010	mg/L	08/30/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	08/29/12	LK	SW6010
Barium	0.049	0.002	mg/L	08/29/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Calcium	168	0.010	mg/L	08/29/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Cobalt	0.010	0.002	mg/L	08/29/12	LK	SW6010
Chromium	0.001	0.001	mg/L	08/29/12	LK	SW6010
Copper	0.037	0.005	mg/L	08/29/12	LK	SW6010
Iron	0.832	0.010	mg/L	08/29/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	08/29/12	RS	SW7470
Potassium	17.4	0.1	mg/L	08/29/12	LK	SW6010
Magnesium	18.8	0.01	mg/L	08/29/12	LK	SW6010
Manganese	0.536	0.001	mg/L	08/29/12	LK	SW6010
Sodium	25.9	0.1	mg/L	08/30/12	LK	SW6010
Nickel	0.023	0.001	mg/L	08/29/12	LK	SW6010
Lead	< 0.002	0.002	mg/L	08/29/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	08/29/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	08/29/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	08/29/12	RS	SW7010
Vanadium	< 0.002	0.002	mg/L	08/29/12	LK	SW6010
Zinc	0.003	0.002	mg/L	08/29/12	LK	SW6010
Mercury Digestion	Completed			08/29/12	X/X	SW7470
PCB Extraction	Completed			08/28/12	L/T	SW3510C
Extraction for Pest (2 Liter)	Completed			08/28/12	L	SW3510
Semi-Volatile Extraction	Completed			08/29/12	F/K/D	SW3520
Total Metals Digestion	Completed			08/28/12	AG	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	08/29/12	AW	608/ 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	97		%	08/29/12	AW	30 - 150 %
% TCMX	60		%	08/29/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	08/30/12	MH	SW8081
a-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Alachlor	ND	0.1	ug/L	08/30/12	MH	SW8081
Aldrin	ND	0.003	ug/L	08/30/12	MH	SW8081
b-BHC	ND	0.01	ug/L	08/30/12	MH	SW8081
Chlordane	ND	0.3	ug/L	08/30/12	MH	SW8081
d-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Dieldrin	ND	0.002	ug/L	08/30/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	08/30/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	08/30/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	08/30/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	08/30/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	08/30/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	08/30/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	113		%	08/30/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	87		%	08/30/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	08/28/12	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Acetone	ND	25	ug/L	08/28/12	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	08/28/12	H/T	SW8260
Benzene	ND	0.70	ug/L	08/28/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	08/28/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,2-Dichloroethene	5.2	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	08/28/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Styrene	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
tert-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	08/28/12	H/T	SW8260
Toluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	08/28/12	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	08/28/12	H/T	70 - 130 %
% Bromofluorobenzene	99		%	08/28/12	H/T	70 - 130 %
% Dibromofluoromethane	112		%	08/28/12	H/T	70 - 130 %
% Toluene-d8	101		%	08/28/12	H/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4,6-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dinitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chloronaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2-Methylnaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
2-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
2-Nitrophenol	ND	11	ug/L	08/31/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	56	ug/L	08/31/12	DD	SW8270
3-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	56	ug/L	08/31/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Chloro-3-methylphenol	ND	22	ug/L	08/31/12	DD	SW8270
4-Chloroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Nitroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Nitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
Acetophenone	ND	5.6	ug/L	08/31/12	DD	SW8270
Aniline	ND	11	ug/L	08/31/12	DD	SW8270
Anthracene	ND	5.6	ug/L	08/31/12	DD	SW8270
Azobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzidine	ND	56	ug/L	08/31/12	DD	SW8270
Benzoic acid	ND	56	ug/L	08/31/12	DD	SW8270
Benzyl butyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Carbazole	ND	5.6	ug/L	08/31/12	DD	SW8270
Dibenzofuran	ND	5.6	ug/L	08/31/12	DD	SW8270
Diethyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Dimethylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-butylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-octylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluoranthene	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluorene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorobutadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Isophorone	ND	5.6	ug/L	08/31/12	DD	SW8270
Naphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
Nitrobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
Phenol	ND	11	ug/L	08/31/12	DD	SW8270
Pyrene	ND	5.6	ug/L	08/31/12	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	102		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	75		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	68		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	64		%	08/31/12	DD	40 - 140 %
% Phenol-d5	65		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	107		%	08/31/12	DD	40 - 140 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.044	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.3	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Chrysene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.011	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.067	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.7	ug/L	08/31/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.89	ug/L	08/31/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)

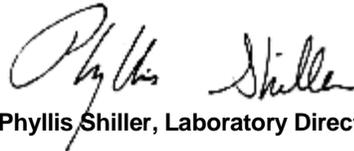
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyridine	ND	0.56	ug/L	08/31/12	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	102		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	75		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	68		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	64		%	08/31/12	DD	40 - 140 %
% Phenol-d5	65		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	107		%	08/31/12	DD	40 - 140 %

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 Quantitation) 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**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      0:00  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61164

Project ID: 78 THROOP AVE  
 Client ID: GW 3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Aluminum	51.5	0.10	mg/L	08/30/12	LK	SW6010
Arsenic	0.015	0.004	mg/L	08/29/12	LK	SW6010
Barium	0.240	0.002	mg/L	08/29/12	LK	SW6010
Beryllium	0.002	0.001	mg/L	08/29/12	LK	SW6010
Calcium	232	0.10	mg/L	08/30/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Cobalt	0.018	0.002	mg/L	08/29/12	LK	SW6010
Chromium	0.099	0.001	mg/L	08/29/12	LK	SW6010
Copper	0.088	0.005	mg/L	08/29/12	LK	SW6010
Iron	35.9	0.010	mg/L	08/29/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	08/29/12	RS	SW7470
Potassium	28.1	0.1	mg/L	08/29/12	LK	SW6010
Magnesium	101	0.10	mg/L	08/30/12	LK	SW6010
Manganese	0.297	0.001	mg/L	08/29/12	LK	SW6010
Sodium	27.2	0.1	mg/L	08/29/12	LK	SW6010
Nickel	0.044	0.001	mg/L	08/29/12	LK	SW6010
Lead	0.046	0.002	mg/L	08/29/12	LK	SW6010
QC for AA	Completed			08/30/12	RS	
QC for Mercury	Completed			08/30/12	RS	
QC for ICP	Completed			08/28/12		SW6010
Antimony	< 0.005	0.005	mg/L	08/29/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	08/29/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	08/29/12	RS	SW7010
Vanadium	0.179	0.002	mg/L	08/29/12	LK	SW6010
Zinc	0.104	0.002	mg/L	08/29/12	LK	SW6010
Mercury Digestion MS/MSD	Completed			08/29/12		SW7471
Mercury Digestion	Completed			08/29/12	X/X	SW7470

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
MS/MSD Ext. For PCB	Completed			08/28/12		
MS/MSD Ext. for Pesticide	Completed			08/28/12		
PCB Extraction	Completed			08/28/12	L/T	SW3510C
Extraction for Pest (2 Liter)	Completed			08/28/12	L	SW3510
Semi-Volatile Extraction	Completed			08/29/12	F/K/D	SW3520
MS/MSD Ext. for Semi-Vol.	Completed			08/30/12		
Total Metals Digest MS/MSD	Completed			08/28/12		
Total Metals Digestion	Completed			08/28/12	AG	
QC for PCB	Completed			08/31/12		
QC for Pesticides	Completed			08/31/12		

### Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	08/30/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	08/30/12	AW	608/ 8082

### QA/QC Surrogates

% DCBP	91		%	08/30/12	AW	30 - 150 %
% TCMX	64		%	08/30/12	AW	30 - 150 %

### Pesticides

4,4' -DDD	ND	0.1	ug/L	08/31/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	08/31/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	08/31/12	MH	SW8081
a-BHC	ND	0.05	ug/L	08/31/12	MH	SW8081
Alachlor	ND	0.1	ug/L	08/31/12	MH	SW8081
Aldrin	ND	0.003	ug/L	08/31/12	MH	SW8081
b-BHC	ND	0.01	ug/L	08/31/12	MH	SW8081
Chlordane	ND	0.3	ug/L	08/31/12	MH	SW8081
d-BHC	ND	0.05	ug/L	08/31/12	MH	SW8081
Dieldrin	ND*	0.03	ug/L	08/31/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	08/31/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	08/31/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	08/31/12	MH	SW8081
Endrin	ND	0.1	ug/L	08/31/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	08/31/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	08/31/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	08/31/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	08/31/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	08/31/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	08/31/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	08/31/12	MH	SW8081

### QA/QC Surrogates

%DCBP (Surrogate Rec)	93		%	08/31/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	71		%	08/31/12	MH	30 - 150 %
QC for Volatile	Completed			08/30/12	R/T	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
QC for Volatile	Completed			08/30/12	R/T	
MS/MSD Volatiles	Completed			08/30/12	R/T	
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	08/28/12	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Acetone	ND	25	ug/L	08/28/12	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	08/28/12	H/T	SW8260
Benzene	ND	0.70	ug/L	08/28/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	08/28/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,2-Dichloroethene	15	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Hexachlorobutadiene	ND	0.40	ug/L	08/28/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Styrene	ND	1.0	ug/L	08/28/12	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Tetrachloroethene	1.5	1.0	ug/L	08/28/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	08/28/12	H/T	SW8260
Toluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	08/28/12	H/T	SW8260
Trichloroethene	1.6	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	100		%	08/28/12	H/T	70 - 130 %
% Bromofluorobenzene	99		%	08/28/12	H/T	70 - 130 %
% Dibromofluoromethane	118		%	08/28/12	H/T	70 - 130 %
% Toluene-d8	102		%	08/28/12	H/T	70 - 130 %
QC for Semi-Volatile	Completed			08/31/12		
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4,6-Trichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	08/31/12	DD	SW8270
2,4-Dinitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chloronaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Chlorophenol	ND	11	ug/L	08/31/12	DD	SW8270
2-Methylnaphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
2-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
2-Nitrophenol	ND	11	ug/L	08/31/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	08/31/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	56	ug/L	08/31/12	DD	SW8270
3-Nitroaniline	ND	56	ug/L	08/31/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	56	ug/L	08/31/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Chloro-3-methylphenol	ND	22	ug/L	08/31/12	DD	SW8270
4-Chloroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.6	ug/L	08/31/12	DD	SW8270
4-Nitroaniline	ND	22	ug/L	08/31/12	DD	SW8270
4-Nitrophenol	ND	56	ug/L	08/31/12	DD	SW8270
Acetophenone	ND	5.6	ug/L	08/31/12	DD	SW8270
Aniline	ND	11	ug/L	08/31/12	DD	SW8270
Anthracene	ND	5.6	ug/L	08/31/12	DD	SW8270
Azobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
Benzidine	ND	56	ug/L	08/31/12	DD	SW8270
Benzoic acid	ND	56	ug/L	08/31/12	DD	SW8270
Benzyl butyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.6	ug/L	08/31/12	DD	SW8270
Carbazole	ND	5.6	ug/L	08/31/12	DD	SW8270
Dibenzofuran	ND	5.6	ug/L	08/31/12	DD	SW8270
Diethyl phthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Dimethylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-butylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Di-n-octylphthalate	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluoranthene	ND	5.6	ug/L	08/31/12	DD	SW8270
Fluorene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorobutadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.6	ug/L	08/31/12	DD	SW8270
Isophorone	ND	5.6	ug/L	08/31/12	DD	SW8270
Naphthalene	ND	5.6	ug/L	08/31/12	DD	SW8270
Nitrobenzene	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.6	ug/L	08/31/12	DD	SW8270
Phenol	ND	11	ug/L	08/31/12	DD	SW8270
Pyrene	ND	5.6	ug/L	08/31/12	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	104		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	71		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	73		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	68		%	08/31/12	DD	40 - 140 %
% Phenol-d5	69		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	46		%	08/31/12	DD	40 - 140 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthene	2.8	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthylene	0.32	0.056	ug/L	08/31/12	DD	SW8270 (SIM)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benz(a)anthracene	0.067	0.044	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.3	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.8	ug/L	08/31/12	DD	SW8270 (SIM)
Chrysene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	0.011	0.011	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.067	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.7	ug/L	08/31/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.89	ug/L	08/31/12	DD	SW8270 (SIM)
Phenanthrene	0.22	0.056	ug/L	08/31/12	DD	SW8270 (SIM)
Pyridine	ND	0.56	ug/L	08/31/12	DD	SW8270 (SIM)
<b>QA/QC Surrogates</b>						
% 2,4,6-Tribromophenol	104		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	71		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	73		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	68		%	08/31/12	DD	40 - 140 %
% Phenol-d5	69		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	46		%	08/31/12	DD	40 - 140 %

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

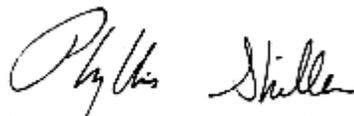
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected  
 BRL=Below Reporting Level

**Comments:**

8260 Volatile Analysis: The sample was analyzed multiple times with variable results. The highest concentrations are reported.

\* 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.  
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**Phyllis Shiller, Laboratory Director**

**September 05, 2012**

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



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



# Analysis Report

September 05, 2012

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

Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      0:00  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61165

Project ID: 78 THROOP AVE  
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Aluminum	1.22	0.010	mg/L	08/29/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	08/29/12	LK	SW6010
Barium	0.084	0.002	mg/L	08/29/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Calcium	202	0.10	mg/L	08/30/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	08/29/12	LK	SW6010
Cobalt	0.023	0.002	mg/L	08/29/12	LK	SW6010
Chromium	0.003	0.001	mg/L	08/29/12	LK	SW6010
Copper	0.114	0.005	mg/L	08/29/12	LK	SW6010
Iron	1.43	0.010	mg/L	08/29/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	08/29/12	RS	SW7470
Potassium	17.4	0.1	mg/L	08/29/12	LK	SW6010
Magnesium	22.5	0.01	mg/L	08/29/12	LK	SW6010
Manganese	1.57	0.001	mg/L	08/29/12	LK	SW6010
Sodium	48.6	1.0	mg/L	08/30/12	LK	SW6010
Nickel	0.054	0.001	mg/L	08/29/12	LK	SW6010
Lead	< 0.002	0.002	mg/L	08/29/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	08/29/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	08/29/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	08/29/12	RS	SW7010
Vanadium	0.004	0.002	mg/L	08/29/12	LK	SW6010
Zinc	0.007	0.002	mg/L	08/29/12	LK	SW6010
Mercury Digestion	Completed			08/29/12	X/X	SW7470
PCB Extraction	Completed			08/28/12	L/T	SW3510C
Extraction for Pest (2 Liter)	Completed			08/28/12	L	SW3510
Semi-Volatile Extraction	Completed			08/29/12	F/K/D	SW3520
Total Metals Digestion	Completed			08/28/12	AG	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<b><u>Polychlorinated Biphenyls</u></b>						
PCB-1016	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	08/29/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	08/29/12	AW	608/ 8082
<b><u>QA/QC Surrogates</u></b>						
% DCBP	95		%	08/29/12	AW	30 - 150 %
% TCMX	60		%	08/29/12	AW	30 - 150 %
<b><u>Pesticides</u></b>						
4,4' -DDD	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	08/30/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	08/30/12	MH	SW8081
a-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Alachlor	ND	0.1	ug/L	08/30/12	MH	SW8081
Aldrin	ND	0.003	ug/L	08/30/12	MH	SW8081
b-BHC	ND	0.01	ug/L	08/30/12	MH	SW8081
Chlordane	ND	0.3	ug/L	08/30/12	MH	SW8081
d-BHC	ND	0.05	ug/L	08/30/12	MH	SW8081
Dieldrin	0.006	0.002	ug/L	08/30/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	08/30/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	08/30/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	08/30/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	08/30/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	08/30/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	08/30/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	08/30/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	08/30/12	MH	SW8081
<b><u>QA/QC Surrogates</u></b>						
%DCBP (Surrogate Rec)	95		%	08/30/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	73		%	08/30/12	MH	30 - 150 %
<b><u>Volatiles</u></b>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	08/28/12	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Acetone	ND	25	ug/L	08/28/12	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	08/28/12	H/T	SW8260
Benzene	ND	0.70	ug/L	08/28/12	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Bromoform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Bromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	08/28/12	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloroform	ND	1.0	ug/L	08/28/12	H/T	SW8260
Chloromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,2-Dichloroethene	13	1.0	ug/L	08/28/12	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	08/28/12	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	08/28/12	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	08/28/12	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	08/28/12	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
Naphthalene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
o-Xylene	ND	1.0	ug/L	08/28/12	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Styrene	ND	1.0	ug/L	08/28/12	H/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
tert-Butylbenzene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Tetrachloroethene	1.5	1.0	ug/L	08/28/12	H/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	08/28/12	H/T	SW8260
Toluene	ND	1.0	ug/L	08/28/12	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	08/28/12	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	08/28/12	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	08/28/12	H/T	SW8260
Trichloroethene	1.5	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	08/28/12	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	08/28/12	H/T	SW8260
<b><u>QA/QC Surrogates</u></b>						
% 1,2-dichlorobenzene-d4	102		%	08/28/12	H/T	70 - 130 %
% Bromofluorobenzene	101		%	08/28/12	H/T	70 - 130 %
% Dibromofluoromethane	119		%	08/28/12	H/T	70 - 130 %
% Toluene-d8	98		%	08/28/12	H/T	70 - 130 %
<b><u>Semivolatiles</u></b>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	08/31/12	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	08/31/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	08/31/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	08/31/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	08/31/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	08/31/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	08/31/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	08/31/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	08/31/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	08/31/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	08/31/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	08/31/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	08/31/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	08/31/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	08/31/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	08/31/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	08/31/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	08/31/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	08/31/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	08/31/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	08/31/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	08/31/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	08/31/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	08/31/12	DD	SW8270
Aniline	ND	10	ug/L	08/31/12	DD	SW8270
Anthracene	ND	5.0	ug/L	08/31/12	DD	SW8270
Azobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzidine	ND	50	ug/L	08/31/12	DD	SW8270
Benzoic acid	ND	50	ug/L	08/31/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	08/31/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	08/31/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	08/31/12	DD	SW8270
Carbazole	ND	5.0	ug/L	08/31/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	08/31/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	08/31/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	08/31/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	08/31/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	08/31/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	08/31/12	DD	SW8270
Fluorene	ND	5.0	ug/L	08/31/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	08/31/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	08/31/12	DD	SW8270
Isophorone	ND	5.0	ug/L	08/31/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	08/31/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	08/31/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	08/31/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	08/31/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	08/31/12	DD	SW8270
Phenol	ND	10	ug/L	08/31/12	DD	SW8270
Pyrene	ND	5.0	ug/L	08/31/12	DD	SW8270
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	102		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	74		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	73		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	76		%	08/31/12	DD	40 - 140 %
% Phenol-d5	70		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	102		%	08/31/12	DD	40 - 140 %
<b><u>Semivolatiles</u></b>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	08/31/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	08/31/12	DD	SW8270 (SIM)
Chrysene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	08/31/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	08/31/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	08/31/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	08/31/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	08/31/12	DD	SW8270 (SIM)

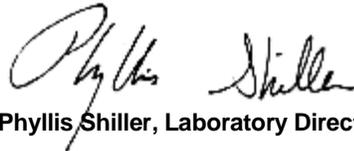
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyridine	ND	0.50	ug/L	08/31/12	DD	SW8270 (SIM)
<b><u>QA/QC Surrogates</u></b>						
% 2,4,6-Tribromophenol	102		%	08/31/12	DD	15 - 130 %
% 2-Fluorobiphenyl	74		%	08/31/12	DD	40 - 140 %
% 2-Fluorophenol	73		%	08/31/12	DD	15 - 130 %
% Nitrobenzene-d5	76		%	08/31/12	DD	40 - 140 %
% Phenol-d5	70		%	08/31/12	DD	15 - 130 %
% Terphenyl-d14	102		%	08/31/12	DD	40 - 140 %

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 Quantitation) 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**

**September 05, 2012**

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



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

# Analysis Report

September 05, 2012

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

## Sample Information

Matrix: GROUND WATER  
 Location Code: EBC  
 Rush Request: 72 Hour  
 P.O.#:

## Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date: 08/27/12  
 08/28/12  
 Time: 0:00  
 16:15

## Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61166

Project ID: 78 THROOP AVE  
 Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	08/29/12	LB	E160.3
Field Extraction	Completed			08/27/12	EBC	SW5035

## Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	08/29/12	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloroethene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloropropene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	1P
1,2,3-Trichloropropane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dibromoethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	1P
1,2-Dichlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dichloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dichloropropane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,3-Dichloropropane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
2,2-Dichloropropane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
2-Chlorotoluene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	
2-Hexanone	ND	25	ug/Kg	08/29/12	R/J	SW8260	
2-Isopropyltoluene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	1
4-Chlorotoluene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260	

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	08/29/12	R/J	SW8260
Acetone	ND	50	ug/Kg	08/29/12	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Benzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	08/29/12	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	08/29/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	08/29/12	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Styrene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	08/29/12	R/J	SW8260
Toluene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	08/29/12	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	08/29/12	R/J	SW8260
<b>QA/QC Surrogates</b>						
% 1,2-dichlorobenzene-d4	102		%	08/29/12	R/J	70 - 130 %
% Bromofluorobenzene	94		%	08/29/12	R/J	70 - 130 %
% Dibromofluoromethane	107		%	08/29/12	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	99		%	08/29/12	R/J	70 - 130 %

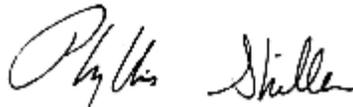
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.  
1P = This parameter is pending certification by NY NELAC for this matrix.

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

**Comments:**

All soils 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**

**September 05, 2012**

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



**Environmental Laboratories, Inc.**  
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**Analysis Report**  
 September 05, 2012

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

Sample Information

Matrix: SOIL  
 Location Code: EBC  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: SW  
 Analyzed by: see "By" below

Date                      Time  
 08/27/12                      0:00  
 08/28/12                      16:15

Laboratory Data

SDG ID: GBC61162  
 Phoenix ID: BC61243

Project ID: 78 THROOP AVE  
 Client ID: TB HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			08/27/12	EBC	SW5035

Volatiles

1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1,1-Trichloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1,2-Trichloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloroethene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,1-Dichloropropene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	1P
1,2,3-Trichloropropane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dibromoethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	1P
1,2-Dichlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dichloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,2-Dichloropropane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,3-Dichlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,3-Dichloropropane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
1,4-Dichlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
2,2-Dichloropropane	ND	250	ug/Kg	08/29/12	R/J	SW8260	
2-Chlorotoluene	ND	250	ug/Kg	08/29/12	R/J	SW8260	
2-Hexanone	ND	1300	ug/Kg	08/29/12	R/J	SW8260	
2-Isopropyltoluene	ND	250	ug/Kg	08/29/12	R/J	SW8260	1
4-Chlorotoluene	ND	250	ug/Kg	08/29/12	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	08/29/12	R/J	SW8260
Acetone	ND	5000	ug/Kg	08/29/12	R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	08/29/12	R/J	SW8260
Benzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Bromoform	ND	250	ug/Kg	08/29/12	R/J	SW8260
Bromomethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	08/29/12	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	08/29/12	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Chloroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Chloroform	ND	250	ug/Kg	08/29/12	R/J	SW8260
Chloromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	08/29/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	08/29/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	08/29/12	R/J	SW8260
Methylene chloride	ND	500	ug/Kg	08/29/12	R/J	SW8260
Naphthalene	ND	250	ug/Kg	08/29/12	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
o-Xylene	ND	250	ug/Kg	08/29/12	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	08/29/12	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Styrene	ND	250	ug/Kg	08/29/12	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	08/29/12	R/J	SW8260
Toluene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Total Xylenes	ND	250	ug/Kg	08/29/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	08/29/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	08/29/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	08/29/12	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	08/29/12	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	08/29/12	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	08/29/12	R/J	SW8260
<b>QA/QC Surrogates</b>						
% 1,2-dichlorobenzene-d4	99		%	08/29/12	R/J	70 - 130 %
% Bromofluorobenzene	90		%	08/29/12	R/J	70 - 130 %
% Dibromofluoromethane	99		%	08/29/12	R/J	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	99		%	08/29/12	R/J	70 - 130 %

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

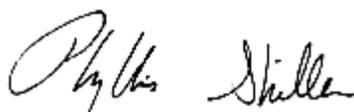
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected  
BRL=Below Reporting Level

**Comments:**

TRIP BLANK INCLUDED.

All soils 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**

**September 05, 2012**

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



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



# QA/QC Report

September 05, 2012

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208115, QC Sample No: BC61162 (BC61162)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	94.4	96.6	2.3	98.6	90.9	8.1	70 - 130	20
QA/QC Batch 208116, QC Sample No: BC61163 (BC61163, BC61165)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	88.0	83.5	5.2	83.9	91.6	8.8	70 - 130	20
QA/QC Batch 208085, QC Sample No: BC61164 (BC61162, BC61163, BC61164, BC61165)												
<u>ICP Metals - Aqueous</u>												
Aluminum	BRL	55.6	56.8	2.10	95.8	95.8	0.0	NC	NC	NC	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	101	102	1.0	100	100	0.0	75 - 125	20
Arsenic	BRL	0.015	0.016	NC	97.7	98.7	1.0	96.5	97.3	0.8	75 - 125	20
Barium	BRL	0.240	0.241	0.40	103	103	0.0	105	106	0.9	75 - 125	20
Beryllium	BRL	0.002	0.002	NC	103	104	1.0	101	102	1.0	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	100	101	1.0	93.9	94.4	0.5	75 - 125	20
Calcium	BRL	242	237	2.10	99.7	100	0.3	NC	NC	NC	75 - 125	20
Chromium	BRL	0.099	0.105	5.90	100	101	1.0	98.3	98.8	0.5	75 - 125	20
Cobalt	BRL	0.018	0.020	10.5	101	102	1.0	98.3	98.8	0.5	75 - 125	20
Copper	BRL	0.088	0.094	6.60	101	102	1.0	102	103	1.0	75 - 125	20
Iron	BRL	35.9	38.7	7.50	101	102	1.0	NC	NC	NC	75 - 125	20
Lead	BRL	0.046	0.048	4.30	100	101	1.0	97.2	97.8	0.6	75 - 125	20
Magnesium	BRL	104	104	0	104	106	1.9	NC	NC	NC	75 - 125	20
Manganese	BRL	0.297	0.323	8.40	99.2	101	1.8	98.0	99.1	1.1	75 - 125	20
Nickel	BRL	0.044	0.049	10.8	100	101	1.0	95.7	96.5	0.8	75 - 125	20
Potassium	BRL	28.1	27.6	1.80	98.0	97.7	0.3	NC	NC	NC	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	87.0	87.1	0.1	84.7	86.7	2.3	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	97.9	98.9	1.0	100	101	1.0	75 - 125	20
Sodium	BRL	27.2	26.8	1.50	106	104	1.9	NC	NC	NC	75 - 125	20
Vanadium	BRL	0.179	0.187	4.40	100	101	1.0	100	101	1.0	75 - 125	20
Zinc	BRL	0.104	0.118	12.6	99.8	101	1.2	98.2	99.4	1.2	75 - 125	20
QA/QC Batch 208123, QC Sample No: BC61164 (BC61164)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	101	92.2	9.1	90.2	81.1	10.6	70 - 130	20
QA/QC Batch 208097, QC Sample No: BC61164 (BC61162, BC61163, BC61164, BC61165)												
Thallium - Water	BRL	<0.002	<0.002	NC	113	110	2.7	104	106	1.9	75 - 125	20



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# QA/QC Report

September 05, 2012

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208317, QC Sample No: BC60795 (BC61162, BC61163, BC61165)									
<u>Volatiles - Ground Water</u>									
1,1,1,2-Tetrachloroethane	ND	117	123	5.0				70 - 130	30
1,1,1-Trichloroethane	ND	105	90	15.4				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	107	113	5.5				70 - 130	30
1,1,2-Trichloroethane	ND	116	122	5.0				70 - 130	30
1,1-Dichloroethane	ND	105	92	13.2				70 - 130	30
1,1-Dichloroethene	ND	96	83	14.5				70 - 130	30
1,1-Dichloropropene	ND	109	115	5.4				70 - 130	30
1,2,3-Trichlorobenzene	ND	122	136	10.9				70 - 130	30
1,2,3-Trichloropropane	ND	106	124	15.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	116	122	5.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	109	119	8.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	79	84	6.1				70 - 130	30
1,2-Dibromoethane	ND	113	115	1.8				70 - 130	30
1,2-Dichlorobenzene	ND	107	113	5.5				70 - 130	30
1,2-Dichloroethane	ND	109	127	15.3				70 - 130	30
1,2-Dichloropropane	ND	109	117	7.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	110	120	8.7				70 - 130	30
1,3-Dichlorobenzene	ND	107	114	6.3				70 - 130	30
1,3-Dichloropropane	ND	110	115	4.4				70 - 130	30
1,4-Dichlorobenzene	ND	106	112	5.5				70 - 130	30
2,2-Dichloropropane	ND	105	91	14.3				70 - 130	30
2-Chlorotoluene	ND	106	114	7.3				70 - 130	30
2-Hexanone	ND	107	115	7.2				70 - 130	30
2-Isopropyltoluene	ND	93	101	8.2				70 - 130	30
4-Chlorotoluene	ND	103	108	4.7				70 - 130	30
4-Methyl-2-pentanone	ND	101	109	7.6				70 - 130	30
Acetone	ND	101	86	16.0				70 - 130	30
Acrylonitrile	ND	90	84	6.9				70 - 130	30
Benzene	ND	113	147	26.2				70 - 130	30
Bromobenzene	ND	106	115	8.1				70 - 130	30
Bromochloromethane	ND	106	86	20.8				70 - 130	30
Bromodichloromethane	ND	109	118	7.9				70 - 130	30
Bromoform	ND	122	128	4.8				70 - 130	30
Bromomethane	ND	89	74	18.4				70 - 130	30
Carbon Disulfide	ND	85	74	13.8				70 - 130	30
Carbon tetrachloride	ND	109	117	7.1				70 - 130	30
Chlorobenzene	ND	108	114	5.4				70 - 130	30
Chloroethane	ND	97	85	13.2				70 - 130	30
Chloroform	ND	106	92	14.1				70 - 130	30
Chloromethane	ND	83	74	11.5				70 - 130	30
cis-1,2-Dichloroethene	ND	107	92	15.1				70 - 130	30

QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	109	117	7.1				70 - 130	30
Dibromochloromethane	ND	119	124	4.1				70 - 130	30
Dibromomethane	ND	111	116	4.4				70 - 130	30
Dichlorodifluoromethane	ND	60	56	6.9				70 - 130	30
Ethylbenzene	ND	111	118	6.1				70 - 130	30
Hexachlorobutadiene	ND	101	108	6.7				70 - 130	30
Isopropylbenzene	ND	105	114	8.2				70 - 130	30
m&p-Xylene	ND	110	117	6.2				70 - 130	30
Methyl ethyl ketone	ND	95	79	18.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	103	109	5.7				70 - 130	30
Methylene chloride	ND	96	81	16.9				70 - 130	30
Naphthalene	ND	124	142	13.5				70 - 130	30
n-Butylbenzene	ND	108	120	10.5				70 - 130	30
n-Propylbenzene	ND	102	111	8.5				70 - 130	30
o-Xylene	ND	105	113	7.3				70 - 130	30
p-Isopropyltoluene	ND	114	123	7.6				70 - 130	30
sec-Butylbenzene	ND	104	114	9.2				70 - 130	30
Styrene	ND	109	114	4.5				70 - 130	30
tert-Butylbenzene	ND	106	114	7.3				70 - 130	30
Tetrachloroethene	ND	105	111	5.6				70 - 130	30
Tetrahydrofuran (THF)	ND	93	82	12.6				70 - 130	30
Toluene	ND	112	119	6.1				70 - 130	30
trans-1,2-Dichloroethene	ND	103	88	15.7				70 - 130	30
trans-1,3-Dichloropropene	ND	112	119	6.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	104	109	4.7				70 - 130	30
Trichloroethene	ND	108	113	4.5				70 - 130	30
Trichlorofluoromethane	ND	90	79	13.0				70 - 130	30
Trichlorotrifluoroethane	ND	74	66	11.4				70 - 130	30
Vinyl chloride	ND	86	77	11.0				70 - 130	30
% 1,2-dichlorobenzene-d4	100	100	101	1.0				70 - 130	30
% Bromofluorobenzene	100	101	102	1.0				70 - 130	30
% Dibromofluoromethane	95	99	78	23.7				70 - 130	30
% Toluene-d8	102	101	100	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

QA/QC Batch 208091, QC Sample No: BC61164 (BC61162, BC61163, BC61164, BC61165)

Pesticides - Ground Water

4,4' -DDD	ND	88	81	8.3	88	96	8.7	40 - 140	20
4,4' -DDE	ND	83	77	7.5	78	87	10.9	40 - 140	20
4,4' -DDT	ND	91	84	8.0	90	102	12.5	40 - 140	20
a-BHC	ND	85	79	7.3	77	86	11.0	40 - 140	20
a-Chlordane	ND	83	83	0.0	79	86	8.5	40 - 140	20
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	20
Aldrin	ND	80	77	3.8	74	85	13.8	40 - 140	20
b-BHC	ND	82	77	6.3	82	85	3.6	40 - 140	20
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	20
d-BHC	ND	90	83	8.1	83	93	11.4	40 - 140	20
Dieldrin	ND	87	84	3.5	80	89	10.7	40 - 140	20
Endosulfan I	ND	85	83	2.4	87	102	15.9	40 - 140	20
Endosulfan II	ND	88	83	5.8	83	90	8.1	40 - 140	20
Endosulfan sulfate	ND	85	81	4.8	80	87	8.4	40 - 140	20
Endrin	ND	85	81	4.8	78	87	10.9	40 - 140	20

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endrin aldehyde	ND	96	90	6.5	85	91	6.8	40 - 140	20
Endrin ketone	ND	97	92	5.3	95	104	9.0	40 - 140	20
g-BHC	ND	85	81	4.8	78	87	10.9	40 - 140	20
g-Chlordane	ND	84	82	2.4	79	88	10.8	40 - 140	20
Heptachlor	ND	83	79	4.9	78	89	13.2	40 - 140	20
Heptachlor epoxide	ND	85	82	3.6	79	87	9.6	40 - 140	20
Methoxychlor	ND	102	96	6.1	102	112	9.3	40 - 140	20
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	20
% DCBP	90	90	85	5.7	85	95	11.1	30 - 150	20
% TCMX	92	75	73	2.7	73	80	9.2	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 208092, QC Sample No: BC61164 (BC61162, BC61163, BC61164, BC61165)

### Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	83	78	6.2	83	84	1.2	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	85	78	8.6	86	88	2.3	40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	88	85	71	17.9	93	98	5.2	30 - 150	20
% TCMX (Surrogate Rec)	100	93	90	3.3	89	96	7.6	30 - 150	20

Comment:

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

QA/QC Batch 208379, QC Sample No: BC61164 (BC61164)

### Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	120	126	4.9	145	125	14.8	70 - 130	30	m
1,1,1-Trichloroethane	ND	126	94	29.1	>150	>150	NC	70 - 130	30	m
1,1,2,2-Tetrachloroethane	ND	108	112	3.6	126	112	11.8	70 - 130	30	
1,1,2-Trichloroethane	ND	115	118	2.6	133	120	10.3	70 - 130	30	m
1,1-Dichloroethane	ND	125	93	29.4	>150	141	NC	70 - 130	30	m
1,1-Dichloroethene	ND	118	87	30.2	>150	148	NC	70 - 130	30	m
1,1-Dichloropropene	ND	115	115	0.0	138	120	14.0	70 - 130	30	m
1,2,3-Trichlorobenzene	ND	128	138	7.5	148	141	4.8	70 - 130	30	l,m
1,2,3-Trichloropropane	ND	114	118	3.4	128	118	8.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	117	127	8.2	132	126	4.7	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	118	122	3.3	134	120	11.0	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	77	84	8.7	88	83	5.8	70 - 130	30	
1,2-Dibromoethane	ND	113	116	2.6	132	117	12.0	70 - 130	30	m
1,2-Dichlorobenzene	ND	110	113	2.7	128	115	10.7	70 - 130	30	
1,2-Dichloroethane	ND	111	128	14.2	127	114	10.8	70 - 130	30	
1,2-Dichloropropane	ND	112	116	3.5	131	114	13.9	70 - 130	30	m
1,3,5-Trimethylbenzene	ND	120	123	2.5	137	120	13.2	70 - 130	30	m
1,3-Dichlorobenzene	ND	112	117	4.4	128	117	9.0	70 - 130	30	
1,3-Dichloropropane	ND	110	115	4.4	126	111	12.7	70 - 130	30	
1,4-Dichlorobenzene	ND	109	114	4.5	128	116	9.8	70 - 130	30	
2,2-Dichloropropane	ND	115	86	28.9	>150	>150	NC	70 - 130	30	m
2-Chlorotoluene	ND	115	118	2.6	133	118	12.0	70 - 130	30	m

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Hexanone	ND	96	106	9.9	111	101	9.4	70 - 130	30	
2-Isopropyltoluene	ND	103	106	2.9	119	106	11.6	70 - 130	30	
4-Chlorotoluene	ND	107	113	5.5	131	118	10.4	70 - 130	30	m
4-Methyl-2-pentanone	ND	99	104	4.9	111	99	11.4	70 - 130	30	
Acetone	ND	108	81	28.6	149	144	3.4	70 - 130	30	m
Acrylonitrile	ND	103	72	35.4	131	111	16.5	70 - 130	30	m,r
Benzene	ND	113	145	24.8	106	92	14.1	70 - 130	30	l
Bromobenzene	ND	112	117	4.4	130	114	13.1	70 - 130	30	
Bromochloromethane	ND	119	87	31.1	>150	138	NC	70 - 130	30	m,r
Bromodichloromethane	ND	112	117	4.4	135	121	10.9	70 - 130	30	m
Bromoform	ND	118	127	7.3	>150	132	NC	70 - 130	30	m
Bromomethane	ND	97	52	60.4	>150	>150	NC	70 - 130	30	l,m,r
Carbon Disulfide	ND	102	77	27.9	140	123	12.9	70 - 130	30	m
Carbon tetrachloride	ND	116	119	2.6	>150	138	NC	70 - 130	30	m
Chlorobenzene	ND	112	118	5.2	134	119	11.9	70 - 130	30	m
Chloroethane	ND	127	93	30.9	>150	>150	NC	70 - 130	30	m,r
Chloroform	ND	124	93	28.6	>150	149	NC	70 - 130	30	m
Chloromethane	ND	96	72	28.6	149	134	10.6	70 - 130	30	m
cis-1,2-Dichloroethene	ND	125	93	29.4	143	>150	NC	70 - 130	30	m
cis-1,3-Dichloropropene	ND	106	110	3.7	136	119	13.3	70 - 130	30	m
Dibromochloromethane	ND	117	125	6.6	143	127	11.9	70 - 130	30	m
Dibromomethane	ND	111	117	5.3	131	115	13.0	70 - 130	30	m
Dichlorodifluoromethane	ND	80	61	27.0	>150	124	NC	70 - 130	30	l,m
Ethylbenzene	ND	118	123	4.1	139	122	13.0	70 - 130	30	m
Hexachlorobutadiene	ND	107	113	5.5	136	127	6.8	70 - 130	30	m
Isopropylbenzene	ND	116	118	1.7	139	122	13.0	70 - 130	30	m
m&p-Xylene	ND	118	124	5.0	141	122	14.4	70 - 130	30	m
Methyl ethyl ketone	ND	101	80	23.2	121	108	11.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	95	101	6.1	107	97	9.8	70 - 130	30	
Methylene chloride	ND	110	83	28.0	138	124	10.7	70 - 130	30	m
Naphthalene	ND	124	136	9.2	145	142	2.1	70 - 130	30	l,m
n-Butylbenzene	ND	118	121	2.5	134	121	10.2	70 - 130	30	m
n-Propylbenzene	ND	111	114	2.7	137	122	11.6	70 - 130	30	m
o-Xylene	ND	112	119	6.1	130	113	14.0	70 - 130	30	
p-Isopropyltoluene	ND	124	127	2.4	140	124	12.1	70 - 130	30	m
sec-Butylbenzene	ND	115	119	3.4	142	126	11.9	70 - 130	30	m
Styrene	ND	115	120	4.3	130	114	13.1	70 - 130	30	
tert-Butylbenzene	ND	116	120	3.4	143	125	13.4	70 - 130	30	m
Tetrachloroethene	ND	112	115	2.6	137	124	10.0	70 - 130	30	m
Tetrahydrofuran (THF)	ND	103	78	27.6	134	119	11.9	70 - 130	30	m
Toluene	ND	117	121	3.4	139	121	13.8	70 - 130	30	m
trans-1,2-Dichloroethene	ND	119	90	27.8	>150	146	NC	70 - 130	30	m
trans-1,3-Dichloropropene	ND	107	113	5.5	137	121	12.4	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	94	101	7.2	135	118	13.4	70 - 130	30	m
Trichloroethene	ND	113	117	3.5	137	125	9.2	70 - 130	30	m
Trichlorofluoromethane	ND	115	85	30.0	>150	139	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	96	71	29.9	141	116	19.5	70 - 130	30	m
Vinyl chloride	ND	106	81	26.7	>150	>150	NC	70 - 130	30	m
% 1,2-dichlorobenzene-d4	100	100	101	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	98	100	100	0.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	89	108	78	32.3	120	125	4.1	70 - 130	30	r
% Toluene-d8	102	99	99	0.0	99	100	1.0	70 - 130	30	

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208180, QC Sample No: BC61164 (BC61162, BC61163, BC61164, BC61165)									
<u>Semivolatiles - Ground Water</u>									
1,2,4,5-Tetrachlorobenzene	ND	85	84	1.2	85	86	1.2	30 - 130	20
1,2,4-Trichlorobenzene	ND	83	85	2.4	82	82	0.0	30 - 130	20
1,2-Dichlorobenzene	ND	80	80	0.0	78	78	0.0	30 - 130	20
1,3-Dichlorobenzene	ND	77	77	0.0	74	75	1.3	30 - 130	20
1,4-Dichlorobenzene	ND	80	79	1.3	76	76	0.0	30 - 130	20
2,4,5-Trichlorophenol	ND	81	82	1.2	81	94	14.9	30 - 130	20
2,4,6-Trichlorophenol	ND	84	86	2.4	88	94	6.6	30 - 130	20
2,4-Dichlorophenol	ND	85	87	2.3	90	91	1.1	30 - 130	20
2,4-Dimethylphenol	ND	50	51	2.0	35	35	0.0	30 - 130	20
2,4-Dinitrophenol	ND	33	28	16.4	57	65	13.1	30 - 130	20
2,4-Dinitrotoluene	ND	82	83	1.2	90	89	1.1	30 - 130	20
2,6-Dinitrotoluene	ND	82	82	0.0	87	88	1.1	30 - 130	20
2-Chloronaphthalene	ND	84	85	1.2	86	87	1.2	30 - 130	20
2-Chlorophenol	ND	74	74	0.0	74	76	2.7	30 - 130	20
2-Methylnaphthalene	ND	79	79	0.0	80	80	0.0	30 - 130	20
2-Methylphenol (o-cresol)	ND	71	70	1.4	71	72	1.4	30 - 130	20
2-Nitroaniline	ND	>150	>150	NC	89	88	1.1	30 - 130	20
2-Nitrophenol	ND	84	88	4.7	91	96	5.3	30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	72	71	1.4	72	70	2.8	30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC	N/A	N/A	NC	30 - 130	20
3-Nitroaniline	ND	85	86	1.2	77	78	1.3	30 - 130	20
4,6-Dinitro-2-methylphenol	ND	70	61	13.7	83	88	5.8	30 - 130	20
4-Bromophenyl phenyl ether	ND	88	91	3.4	90	88	2.2	30 - 130	20
4-Chloro-3-methylphenol	ND	88	88	0.0	91	93	2.2	30 - 130	20
4-Chloroaniline	ND	>150	>150	NC	64	62	3.2	30 - 130	20
4-Chlorophenyl phenyl ether	ND	88	89	1.1	91	91	0.0	30 - 130	20
4-Nitroaniline	ND	85	86	1.2	77	78	1.3	30 - 130	20
4-Nitrophenol	ND	69	67	2.9	85	88	3.5	30 - 130	20
Acenaphthene	ND	84	86	2.4	87	87	0.0	30 - 130	20
Acenaphthylene	ND	80	88	9.5	83	83	0.0	30 - 130	20
Acetophenone	ND	80	81	1.2	78	79	1.3	30 - 130	20
Aniline	ND	N/A	N/A	NC	N/A	N/A	NC	30 - 130	20
Anthracene	ND	87	88	1.1	87	87	0.0	30 - 130	20
Azobenzene	ND	82	82	0.0	84	84	0.0	30 - 130	20
Benz(a)anthracene	ND	89	90	1.1	89	89	0.0	30 - 130	20
Benzidine	ND	N/A	N/A	NC	N/A	N/A	NC	30 - 130	20
Benzo(a)pyrene	ND	79	78	1.3	78	78	0.0	30 - 130	20
Benzo(b)fluoranthene	ND	86	85	1.2	85	87	2.3	30 - 130	20
Benzo(ghi)perylene	ND	82	80	2.5	84	81	3.6	30 - 130	20
Benzo(k)fluoranthene	ND	86	86	0.0	87	86	1.2	30 - 130	20
Benzoic acid	ND	N/A	N/A	NC	N/A	N/A	NC	30 - 130	20
Benzyl butyl phthalate	ND	77	81	5.1	80	80	0.0	30 - 130	20
Bis(2-chloroethoxy)methane	ND	78	79	1.3	79	80	1.3	30 - 130	20
Bis(2-chloroethyl)ether	ND	62	62	0.0	60	61	1.7	30 - 130	20
Bis(2-chloroisopropyl)ether	ND	71	71	0.0	70	70	0.0	30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	76	80	5.1	79	78	1.3	30 - 130	20
Carbazole	ND	>150	>150	NC	>150	>150	NC	30 - 130	20
Chrysene	ND	87	86	1.2	88	87	1.1	30 - 130	20
Dibenz(a,h)anthracene	ND	83	81	2.4	84	84	0.0	30 - 130	20
Dibenzofuran	ND	85	87	2.3	88	88	0.0	30 - 130	20

QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl phthalate	ND	93	94	1.1	96	95	1.0	30 - 130	20
Dimethylphthalate	ND	89	91	2.2	92	92	0.0	30 - 130	20
Di-n-butylphthalate	ND	96	99	3.1	93	91	2.2	30 - 130	20
Di-n-octylphthalate	ND	83	86	3.6	88	88	0.0	30 - 130	20
Fluoranthene	ND	90	89	1.1	92	91	1.1	30 - 130	20
Fluorene	ND	85	85	0.0	86	87	1.2	30 - 130	20
Hexachlorobenzene	ND	91	95	4.3	92	91	1.1	30 - 130	20
Hexachlorobutadiene	ND	89	90	1.1	89	89	0.0	30 - 130	20
Hexachlorocyclopentadiene	ND	17	18	5.7	24	26	8.0	30 - 130	20
Hexachloroethane	ND	78	79	1.3	78	79	1.3	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	81	80	1.2	84	82	2.4	30 - 130	20
Isophorone	ND	83	84	1.2	83	83	0.0	30 - 130	20
Naphthalene	ND	67	67	0.0	67	66	1.5	30 - 130	20
Nitrobenzene	ND	76	78	2.6	106	106	0.0	30 - 130	20
N-Nitrosodimethylamine	ND	66	67	1.5	62	65	4.7	30 - 130	20
N-Nitrosodi-n-propylamine	ND	75	76	1.3	72	74	2.7	30 - 130	20
N-Nitrosodiphenylamine	ND	103	102	1.0	100	99	1.0	30 - 130	20
Pentachloronitrobenzene	ND	92	96	4.3	97	96	1.0	30 - 130	20
Pentachlorophenol	ND	68	67	1.5	89	90	1.1	30 - 130	20
Phenanthrene	ND	89	90	1.1	91	90	1.1	30 - 130	20
Phenol	ND	69	69	0.0	90	94	4.3	30 - 130	20
Pyrene	ND	94	94	0.0	97	95	2.1	30 - 130	20
Pyridine	ND	44	43	2.3	55	56	1.8	30 - 130	20
% 2,4,6-Tribromophenol	103	85	87	2.3	91	92	1.1	30 - 130	20
% 2-Fluorobiphenyl	75	74	76	2.7	73	76	4.0	40 - 140	20
% 2-Fluorophenol	77	54	56	3.6	59	60	1.7	30 - 130	20
% Nitrobenzene-d5	83	72	73	1.4	73	73	0.0	40 - 140	20
% Phenol-d5	78	57	57	0.0	63	64	1.6	30 - 130	20
% Terphenyl-d14	91	91	88	3.4	62	61	1.6	40 - 140	20

QA/QC Batch 208165, QC Sample No: BC61213 (BC61166, BC61243)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	111	106	4.6	111	100	10.4	70 - 130	30
1,1,1-Trichloroethane	ND	109	108	0.9	121	104	15.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	86	11.0	144	143	0.7	70 - 130	30
1,1,2-Trichloroethane	ND	112	99	12.3	104	100	3.9	70 - 130	30
1,1-Dichloroethane	ND	106	102	3.8	115	100	14.0	70 - 130	30
1,1-Dichloroethene	ND	97	94	3.1	107	95	11.9	70 - 130	30
1,1-Dichloropropene	ND	107	108	0.9	111	96	14.5	70 - 130	30
1,2,3-Trichlorobenzene	ND	92	96	4.3	55	44	22.2	70 - 130	30
1,2,3-Trichloropropane	ND	104	88	16.7	138	138	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	85	87	2.3	62	56	10.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	95	99	4.1	81	71	13.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	101	90	11.5	132	123	7.1	70 - 130	30
1,2-Dibromoethane	ND	112	97	14.4	103	98	5.0	70 - 130	30
1,2-Dichlorobenzene	ND	92	91	1.1	100	89	11.6	70 - 130	30
1,2-Dichloroethane	ND	110	102	7.5	109	101	7.6	70 - 130	30
1,2-Dichloropropane	ND	103	100	3.0	102	95	7.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	97	101	4.0	108	93	14.9	70 - 130	30
1,3-Dichlorobenzene	ND	92	92	0.0	106	94	12.0	70 - 130	30
1,3-Dichloropropane	ND	103	93	10.2	108	102	5.7	70 - 130	30
1,4-Dichlorobenzene	ND	89	90	1.1	107	96	10.8	70 - 130	30
2,2-Dichloropropane	ND	106	106	0.0	115	98	16.0	70 - 130	30

## QA/QC Data

SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Chlorotoluene	ND	92	96	4.3	122	103	16.9	70 - 130	30	
2-Hexanone	ND	90	76	16.9	<40	<40	NC	70 - 130	30	m
2-Isopropyltoluene	ND	92	98	6.3	104	90	14.4	70 - 130	30	
4-Chlorotoluene	ND	89	92	3.3	120	103	15.2	70 - 130	30	
4-Methyl-2-pentanone	ND	103	83	21.5	44	45	2.2	70 - 130	30	m
Acetone	ND	106	82	25.5	<40	<40	NC	70 - 130	30	m
Acrylonitrile	ND	100	87	13.9	78	84	7.4	70 - 130	30	
Benzene	ND	105	104	1.0	102	87	15.9	70 - 130	30	
Bromobenzene	ND	96	95	1.0	133	116	13.7	70 - 130	30	m
Bromochloromethane	ND	109	98	10.6	111	103	7.5	70 - 130	30	
Bromodichloromethane	ND	110	104	5.6	110	99	10.5	70 - 130	30	
Bromoform	ND	115	101	13.0	106	104	1.9	70 - 130	30	
Bromomethane	ND	87	91	4.5	102	85	18.2	70 - 130	30	
Carbon Disulfide	ND	98	94	4.2	103	92	11.3	70 - 130	30	
Carbon tetrachloride	ND	111	113	1.8	118	104	12.6	70 - 130	30	
Chlorobenzene	ND	98	96	2.1	103	91	12.4	70 - 130	30	
Chloroethane	ND	91	89	2.2	101	92	9.3	70 - 130	30	
Chloroform	ND	106	102	3.8	113	100	12.2	70 - 130	30	
Chloromethane	ND	92	94	2.2	110	93	16.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	105	104	1.0	113	97	15.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	102	96	6.1	99	91	8.4	70 - 130	30	
Dibromochloromethane	ND	110	103	6.6	113	109	3.6	70 - 130	30	
Dibromomethane	ND	108	97	10.7	105	96	9.0	70 - 130	30	
Dichlorodifluoromethane	ND	93	94	1.1	113	94	18.4	70 - 130	30	
Ethylbenzene	ND	100	102	2.0	95	83	13.5	70 - 130	30	
Hexachlorobutadiene	ND	89	105	16.5	63	50	23.0	70 - 130	30	m
Isopropylbenzene	ND	93	100	7.3	119	101	16.4	70 - 130	30	
m&p-Xylene	ND	99	100	1.0	83	72	14.2	70 - 130	30	
Methyl ethyl ketone	ND	111	87	24.2	53	52	1.9	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	101	91	10.4	108	104	3.8	70 - 130	30	
Methylene chloride	ND	78	71	9.4	78	72	8.0	70 - 130	30	
Naphthalene	ND	85	96	12.2	44	<40	NC	70 - 130	30	m
n-Butylbenzene	ND	93	99	6.3	74	60	20.9	70 - 130	30	m
n-Propylbenzene	ND	89	94	5.5	106	89	17.4	70 - 130	30	
o-Xylene	ND	99	99	0.0	99	85	15.2	70 - 130	30	
p-Isopropyltoluene	ND	98	104	5.9	96	84	13.3	70 - 130	30	
sec-Butylbenzene	ND	91	97	6.4	92	76	19.0	70 - 130	30	
Styrene	ND	101	96	5.1	84	73	14.0	70 - 130	30	
tert-Butylbenzene	ND	94	101	7.2	107	90	17.3	70 - 130	30	
Tetrachloroethene	ND	101	103	2.0	107	94	12.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	101	78	25.7	102	107	4.8	70 - 130	30	
Toluene	ND	104	104	0.0	100	85	16.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	103	98	5.0	113	98	14.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	106	99	6.8	100	94	6.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	98	85	14.2	127	123	3.2	70 - 130	30	
Trichloroethene	ND	107	108	0.9	108	94	13.9	70 - 130	30	
Trichlorofluoromethane	ND	109	107	1.9	117	98	17.7	70 - 130	30	
Trichlorotrifluoroethane	ND	99	98	1.0	118	104	12.6	70 - 130	30	
Vinyl chloride	ND	87	91	4.5	104	89	15.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	99	99	0.0	104	103	1.0	70 - 130	30	
% Bromofluorobenzene	94	101	99	2.0	93	96	3.2	70 - 130	30	
% Dibromofluoromethane	107	104	98	5.9	113	107	5.5	70 - 130	30	
% Toluene-d8	100	100	100	0.0	94	95	1.1	70 - 130	30	

# QA/QC Data

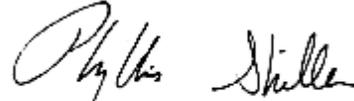
SDG I.D.: GBC61162

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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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  
September 05, 2012

# Sample Criteria Exceedences Report

**GBC61162 - EBC**

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* 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.



