

403 GREENWICH STREET
MANHATTAN, NEW YORK 10013

Remedial Investigation Report

NYC VCP Number: 13CVCP103M

Prepared for:

403 Greenwich Enterprises, LLC
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New York, NY 10003

Prepared by:

EBC

ENVIRONMENTAL BUSINESS CONSULTANTS

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October 2012

REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC 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 403 Greenwich Street, Manhattan, NY 10013, (NYC VCP Site No.13CVCP103M). 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.

KEVIN BRUSSEE 11/27/2012 [Signature]
Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 403 Greenwich Street in the Tribeca section of Manhattan, New York, and is identified as Block 214 and Lot 4 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,489-square feet and is bounded by a six-story brick apartment building with first floor commercial space to the north (Block 214, Lot 7501), a five story commercial/office building to the south (Block 214, Lot 3), a 6-story brick institutional building to the east (Block 214, Lot 1), and Greenwich Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is improved with a 65-year-old, 4,375 SF, 2-story mixed-use retail and office building that is currently vacant. A small basement is present.

The Site consists of 25 feet of street frontage on Greenwich Street and is 100 feet deep, but has a total square footage of just under 2,500 ft².

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 9-story residential building with a cellar. Layout of the proposed site development is presented in Figure 3. The current zoning designation is C6-2A. The proposed use is consistent with existing zoning for the property.

The 25 ft wide tax lot will be developed with a nine-story residential with a full cellar. The new building will extend from the front of approximately 70 ft from the front, leaving a 30ft by 25ft rear yard/lawn. The gross building square footage for the building is 15,688 ft².

The street front portion of the cellar will consist of an electric meter room, water service and gas meter room, a fire pump room, a water booster pump room, and a controller closet. Located



behind the stairwells and elevator shaft within the basement will be a trash room, telecom closet, water heater room and a 359 ft² storage area for building occupants.

The concrete slab of the cellar will be approximately 9 feet 4 inches below sidewalk level. Therefore, assuming an excavation area of 70ft by 25ft by 11ft, a total of approximately 715 cubic yards (1,070 tons) of soil will require excavation. Additional excavation may be necessary in the rear yard to establish a lawn.

Summary of Past Uses of Site and Areas of Concern

A Phase I Environmental Site Assessment report was prepared by IVI Assessment Services, Inc. on July 31, 2012.

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being developed prior to 1894 with a 4-story apartment building with first floor commercial space. In the 1940's the Site was redeveloped with the 2-story building that currently stands at the Site. From the 1960's to recently, the building was labeled on historic Sanborn maps as a garage and storage space.

The 1950 City Directory listings indicate the Site was utilized as Jayspid Manufacturing and Distribution, and the Site was listed as Erie Steel Co. Inc. in 1962. In 1970, the Site was listed as International Longshoreman's Association, but no listings were provided after 1970 for the Site,

Certificates of Occupancy available for the Site indicate 2-story building with storage and a boiler room in the cellar, a factory and storage area on the first floor, and a factory on the 2nd floor in 1948 and 1959, and 2-story building with storage and a boiler room in the cellar, a store on the 1st floor and an office on the 2nd floor in 1984.

The AOCs identified for this Site include:

1. Historic fill is present at the Site to a depth of approximately 10 feet below grade.

Summary of the Work Performed under the Remedial Investigation

403 Greenwich Enterprises, 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 three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes around Site perimeter and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 13 feet.
2. Depth to groundwater is approximately 13 feet at the Site.
3. Groundwater flow is generally from north to south 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 10 feet of historic fill underlain by dark brown silty sand.
6. Soil/fill samples collected during the RI showed no pesticides or PCBs at detectable concentrations. The only VOC detected was naphthalene which was identified in one shallow soil boring at a low concentration (99 ppb). Select SVOCs were detected in two of the three shallow soil samples collected from the historic fill layer at concentrations above their Restricted Residential Use SCOs. One of these shallow samples showed relatively high concentrations of total SVOCs at approximately 268 ppm. These SVOCs were all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed in shallow samples. Five metals exceeded Unrestricted Use SCOs in shallow soil samples, and of these, barium (max of 762 ppm), mercury (max of 0.82 ppm), and lead (max of 7,280 ppm), also exceeded Restricted Residential Use SCOs. No VOCs, SVOCs, pesticides, PCBs or metals were detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, with the exceptions of the high levels of metals detected within one of the



shallow soil/ fill samples, the findings were consistent with observations for other historical fill sites.

7. Groundwater samples collected during the RI showed no detectable concentrations of VOCs or pesticides in any of the groundwater samples collected at the Site. Five SVOCs, all PAHs, were detected above their corresponding GQS within one of the three groundwater samples. The following dissolved metals were detected above their respective NYSDEC GQS: magnesium, manganese, and sodium. One PCB was detected within the duplicate groundwater sample above NYSDEC GQS, but the PCB was not detected within the original sample, nor in on-Site soil. The RI indicates that groundwater is not impacted by Site conditions and did not reveal any sources of contaminants on-Site.
8. Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. BTEX concentrations were generally low at a maximum of 36.04 $\mu\text{g}/\text{m}^3$. PCE was identified in all samples at a maximum concentration of 10.4 $\mu\text{g}/\text{m}^3$, and TCE was identified in one sample at a maximum concentration of 1.56 $\mu\text{g}/\text{m}^3$. The TCE and PCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

403 Greenwich Enterprises, LLC has enrolled in the New York City Volunteer Cleanup Program (NYC VCP) to investigate and remediate a 0.057-acre Site located at 403 Greenwich Street in the Tribeca section of Manhattan, New York. Residential use is proposed for the property. The RI work was performed between September 4, 2012 and September 11, 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 403 Greenwich Street in the Tribeca section of Manhattan, New York, and is identified as Block 214 and Lot 4 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,489-square feet and is bounded by a six-story brick apartment building with first floor commercial space to the north (Block 214, Lot 7501), a five story commercial/office building to the south (Block 214, Lot 3), a 6-story brick institutional building to the east (Block 214, Lot 1), and Greenwich Street to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is improved with a 65-year-old, 4,375 SF, 2-story mixed-use retail and office building that is currently vacant. A small basement is present.

The Site consists of 25 feet of street frontage on Greenwich Street and is 100 feet deep, but has a total square footage of just under 2,500 ft².

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a 9-story residential building with a cellar. Layout of the proposed site development is presented in Figure 3. The current zoning designation is C6-2A. The proposed use is consistent with existing zoning for the property.

The 25 ft wide tax lot will be developed with a nine-story residential with a full cellar. The new building will extend from the front of approximately 70 ft from the front, leaving a 30ft by 25ft rear yard/lawn. The gross building square footage for the building is 15,688 ft².

The street front portion of the cellar will consist of an electric meter room, water service and gas meter room, a fire pump room, a water booster pump room, and a controller closet. Located behind the stairwells and elevator shaft within the basement will be a trash room, telecom closet, water heater room and a 359 ft² storage area for building occupants.

The concrete slab of the cellar will be approximately 9 feet 4 inches below sidewalk level. Therefore, assuming an excavation area of 70ft by 25ft by 11ft, a total of approximately 715 cubic yards (1,070 tons) of soil will require excavation. Additional excavation may be necessary in the rear yard to establish a lawn.

1.3 Description of Surrounding Property

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

Surrounding Property Usage

Direction	Property Description
North – Adjacent property	<u>Block 214, Lot 7501</u> (405 Greenwich Street) – The entire 2,500 ft ² lot is developed with a six-story brick apartment building with first floor commercial space.
South – Adjacent property	<u>Block 214, Lot 3</u> (401 Greenwich Street) – The entire 2,500 ft ² lot is developed with a five story commercial/office building constructed in 2001.
East – Adjacent property	<u>Block 214, Lot 1</u> (53 Beach Street) – The entire 5,027 ft ² lot is developed with a 30,000 ft ² building currently utilized by the Montessori School of Manhattan.
West – Opposite side of Greenwich Street	<u>Block 216, Lot 1</u> (235 West Street) – The 90,004 ft ² lot is developed with a 9-story commercial/office building, constructed in 1987.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

A Phase I Environmental Site Assessment report was prepared by IVI Assessment Services, Inc. on July 31, 2012.

Historical information (DOB records, Sanborn Maps and City Directory listings) reviewed for the Site identified the Site as being developed prior to 1894 with a 4-story apartment building with first floor commercial space. In the 1940's the Site was redeveloped with the 2-story building that currently stands at the Site. From the 1960's to recently, the building was labeled on historic Sanborn maps as a garage and storage space.

The 1950 City Directory listings indicate the Site was utilized as Jayspid Manufacturing and Distribution, and the Site was listed as Erie Steel Co. Inc. in 1962. In 1970, the Site was listed as International Longshoreman's Association, but no listings were provided after 1970 for the Site,

Certificates of Occupancy available for the Site indicate 2-story building with storage and a boiler room in the cellar, a factory and storage area on the first floor, and a factory on the 2nd floor in 1948 and 1959, and 2-story building with storage and a boiler room in the cellar, a store on the 1st floor and an office on the 2nd floor in 1984.

2.2 Previous Investigations

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

2.3 Site Inspection

Mr. Dominic Mosca of EBC performed the Site inspection on September 4, 2012, beginning at approximately 8:00 am. Mr. Mosca noted one monitoring well installed within the sidewalk immediately in front of the Site. This monitoring well was also observed during the Phase I Site inspection performed by IVI, and at the time was reportedly associated with geotechnical work that was performed earlier in the year. This monitoring well was sampled as a part of this RI.

At the time of the inspection, the Site was developed with a vacant 2-story mixed-use retail and office building. A small basement was present, but no evidence of an AST or UST was observed.

The interior of the building was empty and appeared to have been recently gutted. The walls of the building consisted of exposed masonry, but a floor covering of vinyl floor tiles was still present.

2.4 Areas of Concern

The AOCs identified for this Site include:

1. Historic fill is present at the Site to a depth of approximately 10 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

403 Greenwich Enterprises, 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 three soil borings across the entire project Site, and collected six soil samples and one duplicate soil sample for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples and one duplicate for chemical analysis to evaluate groundwater quality; and
4. Installed three soil vapor probes around Site perimeter and collected three 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 September, 2012 a total of three soil borings (B1-B3) were performed in the approximate locations shown on Figure 5. The three soil boring locations were chosen to gain representative soil and groundwater quality information across the Site. For each of the soil borings, soil samples were collected continuously from grade to a final depth of 16 feet below existing grade using a four-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 of the soil borings.

One soil sample was retained from each soil boring representing the interval 0 to 2 feet below grade and one soil sample was retained from each soil boring representing the interval 12 to 14 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 B1 and B2 set to intersect the water table. Since groundwater was encountered at approximately 13 feet below grade, monitoring wells were installed to a depth of 16 feet. The third monitoring well (MW3) was previously installed by a different company as a part of a geotechnical investigation. 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

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

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

Groundwater Sampling

Three groundwater samples and one groundwater duplicate sample were collected for chemical analysis during this RI. Groundwater samples were collected by installing a one-inch diameter PVC well at a depth of approximately 16 feet below grade. A groundwater sample was then collected from each temporary well utilizing dedicated polyethylene tubing and a peristaltic pump. Groundwater samples were collected in pre-cleaned, laboratory supplied glassware, stored in a cooler with ice and submitted to Phoenix for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082 and TAL metals. Groundwater sample collection data is reported in Tables 6 through 10. Sampling logs with information on purging and sampling of groundwater monitor wells is 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 14 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 three implants installed on September 4, 2012, was conducted on September 14, 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 ample probe and tube) of air was purged from the implant using a calibrated vacuum pump. After purging, a 6-liter Summa® canister, fitted with a 2-hour flow regulator, was attached to the surface tube of each of the three vapor implants. Prior to initiating sample collection, sample

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

The soil gas Sample identification, date, start time, start vacuum, end time and end vacuum were recorded on tags attached to each canister and on a sample log sheet (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"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Groundwater analytical methods: <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000);

	Soil vapor analytical methods: <ul style="list-style-type: none">• VOCs by TO-15 VOC parameters..
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Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 2 through 11, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix 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 of approximately 10 feet below grade. Native soil consisting of a dark brown fine silty sand is present below the historic fill layer.

Hydrogeology

A table of water level data for all monitor wells is included in Table 12. The average depth to groundwater is 13 ft. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in Figure 9. Groundwater flow is from north to south.

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 pesticides or PCBs at detectable concentrations. The only VOC detected was naphthalene which was identified in one shallow soil boring at a low concentration (99 ppb). Select SVOCs were detected in two of the three shallow soil samples collected from the historic fill layer at concentrations above their Restricted Residential Use SCOs. One of these shallow samples showed relatively high concentrations of total SVOCs at approximately 268 ppm. These SVOCs were all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material observed in shallow samples. Five metals exceeded Unrestricted Use SCOs in shallow soil samples, and of these, barium (max of 762 ppm), mercury (max of 0.82 ppm), and lead (max of 7,280 ppm), also exceeded Restricted Residential Use SCOs. No VOCs, SVOCs, pesticides, PCBs or metals were

detected above Unrestricted Use SCOs within any of the deep soil samples collected at the Site. Overall, with the exceptions of the high levels of metals detected within one of the shallow soil/fill samples, the findings were consistent with observations for other historical fill sites.

5.3 Groundwater Chemistry

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

No VOCs or pesticides were detected in any of the groundwater samples collected at the Site. Five SVOCs, all PAHs, were detected above their corresponding GQSs within one of the three groundwater samples. The following dissolved metals were detected above their respective NYSDEC GQS: magnesium, manganese, and sodium. One PCB was detected within the duplicate groundwater sample above NYSDEC GQS, but the PCB was not detected within the original sample, nor in on-Site soil. The RI indicates that groundwater is not impacted by Site conditions and did not reveal any sources of contaminants on-Site.

5.4 Soil Vapor Chemistry

Soil vapor samples collected during the RI showed petroleum and chlorinated VOCs at generally low concentrations. BTEX concentrations were generally low at a maximum of 36.04 $\mu\text{g}/\text{m}^3$. PCE was identified in all samples at a maximum concentration of 10.4 $\mu\text{g}/\text{m}^3$, and TCE was identified in one sample at a maximum concentration of 1.56 $\mu\text{g}/\text{m}^3$. The TCE and PCE concentrations are below the monitoring level ranges established within the State DOH soil vapor guidance matrix.

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

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

5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

TABLES

Table 1
403 Greenwich Street
New York, NY
Soil Boring / Well Information

SAMPLE ID	Date	Total Depth (ft)	Diameter (in)	Construction Materials	Screen Length (ft)	DTW (ft)
B1	9/11/2012	16	2	Geoprobe	-	-
B2	9/11/2012	16	2	Geoprobe	-	-
B3	9/11/2012	16	2	Geoprobe	-	-
MW1	9/11/2012	16	1	PVC	5.00	13.34
MW2	9/11/2012	16	1	PVC	5.00	13.45

TABLE 2
403 Greenwich St, New York, New York
Soil Analytical Results
Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1			B2		B3	
			(0-2') µg/Kg	Duplicate (0-2') µg/Kg	(12-14') µg/Kg	(0-2') µg/Kg	(12-14') µg/Kg	(0-2') µg/Kg	(12-14') µg/Kg
1,1,1,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	680	100,000	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane			ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane			ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	270	26,000	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	330	100,000	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene			ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane			ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	3,600	52,000	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane			ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	20	3,100	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	52,000	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	2,400	4,900	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane			ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1,800	13,000	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane			ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND
2-Hexanone (Methyl Butyl Ketone)			ND	ND	ND	ND	ND	ND	ND
2-Isopropyltoluene			ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene			ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone			ND	ND	ND	ND	ND	ND	ND
Acetone	50	100,000	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile			ND	ND	ND	ND	ND	ND	ND
Benzene	60	4,800	ND	ND	ND	ND	ND	ND	ND
Bromobenzene			ND	ND	ND	ND	ND	ND	ND
Bromochloromethane			ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane			ND	ND	ND	ND	ND	ND	ND
Bromoform			ND	ND	ND	ND	ND	ND	ND
Bromomethane			ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide			ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	760	2,400	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1,100	100,000	ND	ND	ND	ND	ND	ND	ND
Chloroethane			ND	ND	ND	ND	ND	ND	ND
Chloroform	370	49,000	ND	ND	ND	ND	ND	ND	ND
Chloromethane			ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	250	100,000	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane			ND	ND	ND	ND	ND	ND	ND
Dibromoethane			ND	ND	ND	ND	ND	ND	ND
Dibromomethane			ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane			ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	41,000	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene			ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	260	100,000	ND	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone (2-Butanone)	120	100,000	ND	ND	ND	ND	ND	ND	ND
Methyl t-butyl ether (MTBE)	930	100,000	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	50	100,000	ND	ND	ND	ND	ND	ND	ND
Naphthalene			99.0	7.3	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	100,000	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	100,000	ND	ND	ND	ND	ND	ND	ND
o-Xylene	260	100,000	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene			ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	100,000	ND	ND	ND	ND	ND	ND	ND
Styrene			ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	100,000	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	19,000	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran (THF)			ND	ND	ND	ND	ND	ND	ND
Toluene	700	100,000	ND	ND	ND	ND	ND	ND	ND
Total Xylenes	260	100,000	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	190	100,000	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene			ND	ND	ND	ND	ND	ND	ND
trans-1,4-dichloro-2-butene			ND	ND	ND	ND	ND	ND	ND
Trichloroethene	470	21,000	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane			ND	ND	ND	ND	ND	ND	ND
Trichlorotrifluoroethane			ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	20	900	ND	ND	ND	ND	ND	ND	ND
Total BTEX Concentration			ND	ND	ND	ND	ND	ND	ND
Total VOCs Concentration			99.0	7.3	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 UUSCO Guidance Value

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

TABLE 3
403 Greenwich St, New York, New York
Soil Analytical Results
Semi-Volatile Organic Compounds

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives	B1			B2		B3	
			(0-2') µg/Kg	Duplicate (0-2') µg/Kg	(12-14') µg/Kg	(0-2') µg/Kg	(12-14') µg/Kg	(0-2') µg/Kg	(12-14') µg/Kg
1,2,4,5-Tetrachlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene			ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol			ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol			ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol			ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol			ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene			ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene			ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol			ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene			1,100	350	ND	ND	ND	ND	ND
2-Methylphenol (o-cresol)	330	100,000	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline			ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol			ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol (m&p-cresol)	330	100,000	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine			ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline			ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol			ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol			ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline			ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether			ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline			ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol			ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20,000	100,000	3,800	530	ND	ND	ND	ND	ND
Acenaphthylene	100,000	100,000	1900	ND	ND	ND	ND	ND	ND
Acetophenone			ND	ND	ND	ND	ND	ND	ND
Aniline			ND	ND	ND	ND	ND	ND	ND
Anthracene	100,000	100,000	9,200	1,200	ND	ND	ND	ND	ND
Azobenzene			ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1,000	1,000	21,000	2,300	ND	ND	750	ND	ND
Benzenzidine			ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	1,000	1,000	18,000	1,900	ND	ND	760	ND	ND
Benzo(b)fluoranthene	1,000	1,000	22,000	2,200	ND	ND	870	ND	ND
Benzo(g,h,i)perylene	100,000	100,000	9,800	1,400	ND	ND	650	ND	ND
Benzo(k)fluoranthene	800	3,900	5,400	770	ND	ND	340	ND	ND
Benzoic Acid			ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate			ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane			ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether			ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether			ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate			ND	2,800	ND	480	ND	ND	ND
Carbazole			2,900	740	ND	ND	ND	ND	ND
Chrysene	1,000	3,900	21,000	2,400	ND	ND	820	ND	ND
Dibenzo(a,h)anthracene	330	330	3,800	370	ND	ND	ND	ND	ND
Dibenzofuran			3,100	430	ND	ND	ND	ND	ND
Diethyl phthalate			ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate			ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate			ND	590	ND	ND	ND	ND	ND
Di-n-octylphthalate			ND	ND	ND	ND	ND	ND	ND
Fluoranthene	100,000	100,000	46,000	5,500	ND	440	910	ND	ND
Fluorene	30,000	100,000	3,300	480	ND	ND	ND	ND	ND
Hexachlorobenzene			ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene			ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene			ND	ND	ND	ND	ND	ND	ND
Hexachloroethane			ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	500	500	9,500	1,200	ND	ND	510	ND	ND
Isophorone			ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	100,000	1,800	710	ND	ND	ND	ND	ND
Nitrobenzene			ND	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine			ND	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine			ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine			ND	ND	ND	ND	ND	ND	ND
Pentachloronitrobenzene			ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	800	6,700	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	100,000	100,000	46,000	5300	ND	300	360	ND	ND
Phenol	330	100,000	ND	ND	ND	ND	ND	ND	ND
Pyrene	100,000	100,000	39,000	5200	ND	410	1300	ND	ND
Pyridine			ND	ND	ND	ND	ND	ND	ND

Notes:

* - NYSDEC Technical and Administrative Guidance Memorandum 4046, 1994

** - 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 UUSCO Guidance Value

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

TABLE 4
403 Greenwich St, New York, New York
Soil Analytical Results
Pesticides / PCBs

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1			B2		B3	
			(0-2) µg/Kg	Duplicate (0-2') µg/Kg	(12-14') µg/Kg	(0-2) µg/Kg	(12-14') µg/Kg	(0-2) µg/Kg	(12-14') µg/Kg
PCB-1016	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1221	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1232	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1242	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1248	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1254	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1260	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1262	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
PCB-1268	1,000	1,000	ND	ND	ND	ND	ND	ND	ND
4,4-DDD	3.3	13,000	ND*	ND	ND	ND	ND	ND	ND
4,4-DDE	3.3	8,900	ND*	ND	ND	ND	ND	ND	ND
4,4-DDT	3.3	7,900	ND*	ND	ND	ND	ND	ND	ND
a-BHC	20	480	ND*	ND	ND	ND	ND	ND	ND
Alachlor			ND*	ND	ND	ND	ND	ND	ND
Aldrin	5	97	ND*	ND	ND	ND	ND	ND	ND
b-BHC	36	360	ND*	ND	ND	ND	ND	ND	ND
Chlordane	94	4,200	ND*	ND	ND	ND	ND	ND	ND
d-BHC	40	100,000	ND*	ND	ND	ND	ND	ND	ND
Dieldrin	5	200	ND*	ND	ND	ND	ND	ND	ND
Endosulfan I	2,400	24,000	ND*	ND	ND	ND	ND	ND	ND
Endosulfan II	2,400	24,000	ND*	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	2,400	24,000	ND*	ND	ND	ND	ND	ND	ND
Endrin	14	11,000	ND*	ND	ND	ND	ND	ND	ND
Endrin aldehyde			ND*	ND	ND	ND	ND	ND	ND
Endrin ketone			ND*	ND	ND	ND	ND	ND	ND
gamma-BHC			ND*	ND	ND	ND	ND	ND	ND
Heptachlor	42	2,100	ND*	ND	ND	ND	ND	ND	ND
Heptachlor epoxide			ND*	ND	ND	ND	ND	ND	ND
Methoxychlor			ND*	ND	ND	ND	ND	ND	ND
Toxaphene			ND*	ND	ND	ND	ND	ND	ND

Notes:

* - NYSDEC Technical and Administrative Guidance Memorandum 4046, 1994

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

ND - Not-detected

NA - Guidance value not available

*ND - Due to matrix interference from non target compounds in the sample an elevated RL was reported

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

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

TABLE 5
403 Greenwich St, New York, New York
Soil Analytical Results
Metals

COMPOUND	NYSDEC Part 375.6 Unrestricted Use Soil Cleanup Objectives	NYDEC Part 375.6 Restricted Residential Soil Cleanup Objectives*	B1			B2		B3	
			(0-2) mg/Kg	Duplicate (0-2') mg/Kg	(12-14') mg/Kg	(0-2) mg/Kg	(12-14') mg/Kg	(0-2) mg/Kg	(12-14') mg/Kg
Aluminum			5,940	5,740	8,970	5,870	5,560	5,970	5,390
Antimony			BRL	BRL	BRL	BRL	BRL	BRL	BRL
Arsenic	13	16	6.6	2.7	1.8	2	0.9	2.5	1.5
Barium	350	350	762	136	60.3	64.3	45	137	58.1
Beryllium	7.2	14	0.33	0.34	0.58	0.37	0.4	0.44	0.37
Cadmium	2.5	2.5	0.47	BRL	BRL	BRL	BRL	BRL	BRL
Calcium			65,300	17,600	949	6,080	1,250	16,000	8,080
Chromium			18.3	25.8	27.6	15.1	14.9	17.5	16.1
Cobalt			4.31	5.25	6.93	5.21	5.24	6.11	4.94
Copper	50	270	35	29.3	10.9	15.3	8.55	91.9	30.6
Iron			11,700	14,900	16,000	11,200	11,300	14,000	11,800
Lead	63	400	7,280	419	9.63	82	10.8	194	24.6
Magnesium			11,200	4,180	2,920	3,730	2,460	3230	2,420
Manganese	1,600	2,000	277	282	227	239	202	370	229
Mercury	0.18	0.81	0.82	0.18	BRL	0.13	BRL	0.22	0.11
Nickel	30	140	13.1	19.3	29.4	19.2	20.6	24.6	20.4
Potassium			1,740	1,470	1,790	1450	1,480	1900	1,520
Selenium	3.9	36	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Silver	2	36	BRL	BRL	BRL	BRL	BRL	BRL	BRL
Sodium			1,690	526	164	268	156	349	158
Thallium			BRL	BRL	BRL	BRL	BRL	BRL	BRL
Vanadium			18.6	14	22.1	14.7	14.9	15.9	14.7
Zinc	109	2,200	545	120	24	47	18.4	176	32.2

Notes:

* - NYSDEC Technical and Administrative Guidance Memorandum 4046, 1994

** - 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 UUSCO Guidance Value

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

TABLE 6
403 Greenwich St, New York, New York
Groundwater Analytical Results
Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 µg/L	MW2 µg/L	MW3 µg/L	Duplicate MW3 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	ND	ND	ND	ND
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	ND	ND	ND	ND
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	ND	ND	ND	ND
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
403 Greenwich St, New York, New York
Groundwater Analytical Results
Semi-Volatile Organic Compounds

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 µg/L	MW2 µg/L	MW3 µg/L	Duplicate MW3 µg/L
1,2,4,5-Tetrachlorobenzene		ND	ND	ND	ND
1,2,4-Trichlorobenzene		ND	ND	ND	ND
2,4,5-Trichlorophenol	3	ND	ND	ND	ND
2,4,6-Trichlorophenol	3	ND	ND	ND	ND
1,2-Dichlorobenzene		ND	ND	ND	ND
1,3-Dichlorobenzene		ND	ND	ND	ND
1,4-Dichlorobenzene		ND	ND	ND	ND
2,4-Dichlorophenol		ND	ND	ND	ND
2,4-Dimethylphenol		ND	ND	ND	ND
2,4-Dinitrophenol		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-Chlorophenol		ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND
2-Methylphenol (o-cresol)		ND	ND	ND	ND
2-Nitroaniline	5	ND	ND	ND	ND
2-Nitrophenol		ND	ND	ND	ND
3&4-Methylphenol (m&p-cresol)		ND	ND	ND	ND
3,3'-Dichlorobenzidine	5	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol		ND	ND	ND	ND
4-Bromophenyl phenyl ether		ND	ND	ND	ND
4-Chloro-3-methylphenol		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
4-Nitrophenol		ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND
Acenaphthylene		ND	ND	ND	ND
Acetophenone		ND	ND	ND	ND
Aniline		ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND
Azobenzene		ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	0.27	ND	ND
Benzidine	5	ND	ND	ND	ND
Benzo(a)pyrene		ND	0.21	ND	ND
Benzo(b)fluoranthene	0.002	ND	0.31	ND	ND
Benzo(g,h,i)perylene		ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	0.09	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	4.1	2
Carbazole		ND	ND	ND	ND
Chrysene	0.002	ND	0.26	ND	ND
Dibenzo(a,h)anthracene		ND	ND	ND	ND
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	0.12	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
Pentachloronitrobenzene		ND	ND	ND	ND
Pentachlorophenol		ND	ND	ND	ND
Phenanthrene	50	0.24	0.52	ND	ND
Phenol		ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND
Pyridine		ND	ND	ND	ND

Notes:

ND - Not detected

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 8
403 Greenwich St, New York, New York
Groundwater Analytical Results
Pesticides/PCBs

Compound	NYSDEC Groundwater Quality Standards μg/L	MW1 μg/L	MW2 μg/L	MW3 μg/L	Duplicate MW3 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	0.39
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	ND	ND*	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

ND* - Due to matrix interference from non target compounds in the sample an elevated RL was reported.

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 9
403 Greenwich St, New York, New York
Groundwater Analytical Results
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 µg/L	MW2 µg/L	MW3 µg/L	Duplicate MW3 µg/L
Silver	50	<1.0	<1.0	<1.0	<1.0
Aluminum	NS	1,520	241	116	<100.0
Arsenic	25	<4.0	<4.0	<4.0	<4.0
Barium	1000	604	803	797	812
Beryllium	3	<1.0	<1.0	<1.0	<1.0
Calcium	NS	103,000	195,000	233,000	130,000
Cadmium	5	<1.0	<1.0	<1.0	<1.0
Cobalt	NS	<2.0	2	<2.0	<2.0
Chromium	50	4	<1.0	<1.0	<1.0
Copper	200	<5.0	<5.0	<5.0	<5.0
Iron	500	2,880	664	845	551
Mercury	0.7	<0.2	<0.2	<0.2	<0.2
Potassium	NS	21,700	39,000	41,800	42,400
Magnesium	35000	42,000	63,600	48,300	49,300
Manganese	300	1,920	18,200	7,020	6,890
Sodium	2000	176,000	580,000	558,000	580,000
Nickel	100	11	16	14	13
Lead	25	40	19	2	2
Antimony	3	<5.0	<5.0	<5.0	<5.0
Selenium	10	<10.0	<10.0	<10.0	<10.0
Thallium	0.5	<2.0	<2.0	<2.0	<2.0
Vanadium	NS	6	<2.0	<2.0	<2.0
Zinc	2000	14	14	3	2

Notes:

ND - ND

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

Table 10
403 Greenwich St, New York, New York
Groundwater Analytical Results
TAL Filtered Metals

Compound	NYSDEC Groundwater Quality Standards µg/L	MW1 µg/L	MW2 µg/L	MW3 µg/L	Duplicate MW3 µg/L
Silver	50	<1.0	<1.0	<1.0	<1.0
Aluminum	NS	<10.0	12	40	10
Arsenic	25	<4.0	<4.0	<4.0	<4.0
Barium	1000	575	788	826	820
Beryllium	3	<1.0	<1.0	<1.0	<1.0
Calcium	NS	106000	186,000	223,000	226,000
Cadmium	5	<1.0	<1.0	<1.0	<1.0
Cobalt	NS	<1.0	2	2	2
Chromium	50	<1.0	<1.0	<1.0	<1.0
Copper	200	<5.0	<5.0	<5.0	<5.0
Iron	500	53	173	118	<11.0
Mercury	0.7	<0.2	<0.2	<0.2	<0.2
Potassium	NS	20,100	34,400	38,200	38,100
Magnesium	35000	44,300	65,500	53,100	52,400
Manganese	300	1,890	17,300	6,600	6,740
Sodium	2000	191,000	587,000	715,000	635,000
Nickel	100	7	15	13	13
Lead	25	3	9	<2.0	<2.0
Antimony	3	<5.0	<5.0	<5.0	<5.0
Selenium	10	<11.0	<11.0	<11.0	<11.0
Thallium	0.5	<2.0	<2.0	<2.0	<2.0
Vanadium	NS	<2.0	<2.0	<2.0	<2.0
Zinc	2000	3	11	2	4

Notes:

ND - ND

NS - No Standard

Bold/highlighted- Indicated exceedance of the NYSDEC Groundwater Standard

TABLE 11
403 Greenwich St, New York, New York
Soil Gas - Volatile Organic Compounds

COMPOUNDS	NYSDOH Maximum Sub Slab Value (µg/m ³) ^(a)	NYSDOH Soil Outdoor Background Levels (µg/m ³) ^(b)	SG-1 (µg/m ³)	SG-2 (µg/m ³)	SG-3 (µg/m ³)
1,1,1,2-Tetrachloroethane			ND	ND	ND
1,1,1-Trichloroethane	100	<2.0 - 2.8	ND	ND	ND
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	3.93	2.95	12.7
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			ND	ND	ND
1,3,5-Trimethylbenzene		<1.0	1.42	1.03	2.5
1,3-Butadiene		NA	ND	ND	ND
1,3-Dichlorobenzene		<2.0	2.22	3	3.18
1,4-Dichlorobenzene		NA	ND	ND	ND
1,4-Dioxane			ND	ND	ND
2-Hexanone			ND	ND	ND
4-Ethyltoluene		NA	1.23	ND	2.11
4-Isopropyltoluene			ND	ND	ND
4-Methyl-2-pentanone			3.11	2.37	5.36
Acetone		NA	8.97	8	16.8
Acrylonitrile			ND	ND	ND
Benzene		<1.6 - 4.7	ND	ND	2.08
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	ND	1.21	7.72
Carbon Tetrachloride	5	<3.1	0.566	0.566	0.817
Chlorobenzene		<2.0	ND	ND	ND
Chloroethane		NA	ND	ND	ND
Chloroform		<2.4	ND	1.66	12.7
Chloromethane		<1.0 - 1.4	ND	ND	ND
cis-1,2-Dichloroethene		<1.0	ND	ND	ND
cis-1,3-Dichloropropene		NA	ND	ND	ND
Cyclohexane		NA	ND	ND	3.06
Dibromochloromethane		<5.0	ND	ND	ND
Dichlorodifluoromethane		NA	2.27	2.37	4.4
Ethanol			56.5	49.5	75.3
Ethyl Acetate		NA	ND	ND	ND
Ethylbenzene		<4.3	1.56	1.39	3.78
Heptane		NA	ND	ND	1.8
Hexachlorobutadiene		NA	ND	ND	ND
Hexane		<1.5	2.75	1.51	2.85
Isopropylalcohol		NA	4.22	3.64	7.59
Isopropylbenzene			ND	ND	ND
Xylene (m&p)		<4.3	6.2	5.81	14.6
Methyl Ethyl Ketone			3.33	3.74	9.87
MTBE		NA	ND	ND	ND
Methylene Chloride		<3.4	70.5	6.08	30
n-Butylbenzene			ND	ND	ND
Xylene (o)		<4.3	2.39	2.34	5.9
Propylene		NA	ND	ND	ND
sec-Butylbenzene			ND	ND	ND
Styrene		<1.0	ND	ND	ND
Tetrachloroethene	100		0.407	2.1	10.4
Tetrahydrofuran		NA	2.42	5.89	21.2
Toluene		1.0 - 6.1	2.79	2.3	9.68
trans-1,2-Dichloroethene		NA	ND	ND	ND
trans-1,3-Dichloropropene		NA	ND	ND	ND
Trichloroethene	5	<1.7	ND	ND	1.56
Trichlorofluoromethane		NA	1.52	1.57	2.98
Trichlorotrifluoroethane			ND	ND	1.22
Vinyl Chloride		<1.0	ND	ND	ND
Total PVOCs*			91.85	82.47	180.38
Total BTEX**			12.94	11.84	36.04
Total VOCs***			169.333	101.026	255.357

Notes:

NA - No guidance value or standard available

(a) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, New York State Department of Health.

(b) NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, February 2005, Summary of Background Levels for Selected Compounds (NYSDOH Database, Outdoor values)

* Petroleum Volatile Organic Compounds

** Benzene, toluene, ethylbenzene, xylene

*** Volatile Organic Compounds (excluding acetone)

Value detected above NYSDOH Air Guidance Value of 5 µg/m³, which according to Soil Vapor/Indoor Air Matrix 1 would require at a minimum, monitoring.

FIGURES

74°02.000' W

74°01.000' W

74°00.000' W

WGS84 73°59.000' W

40°44.000' N

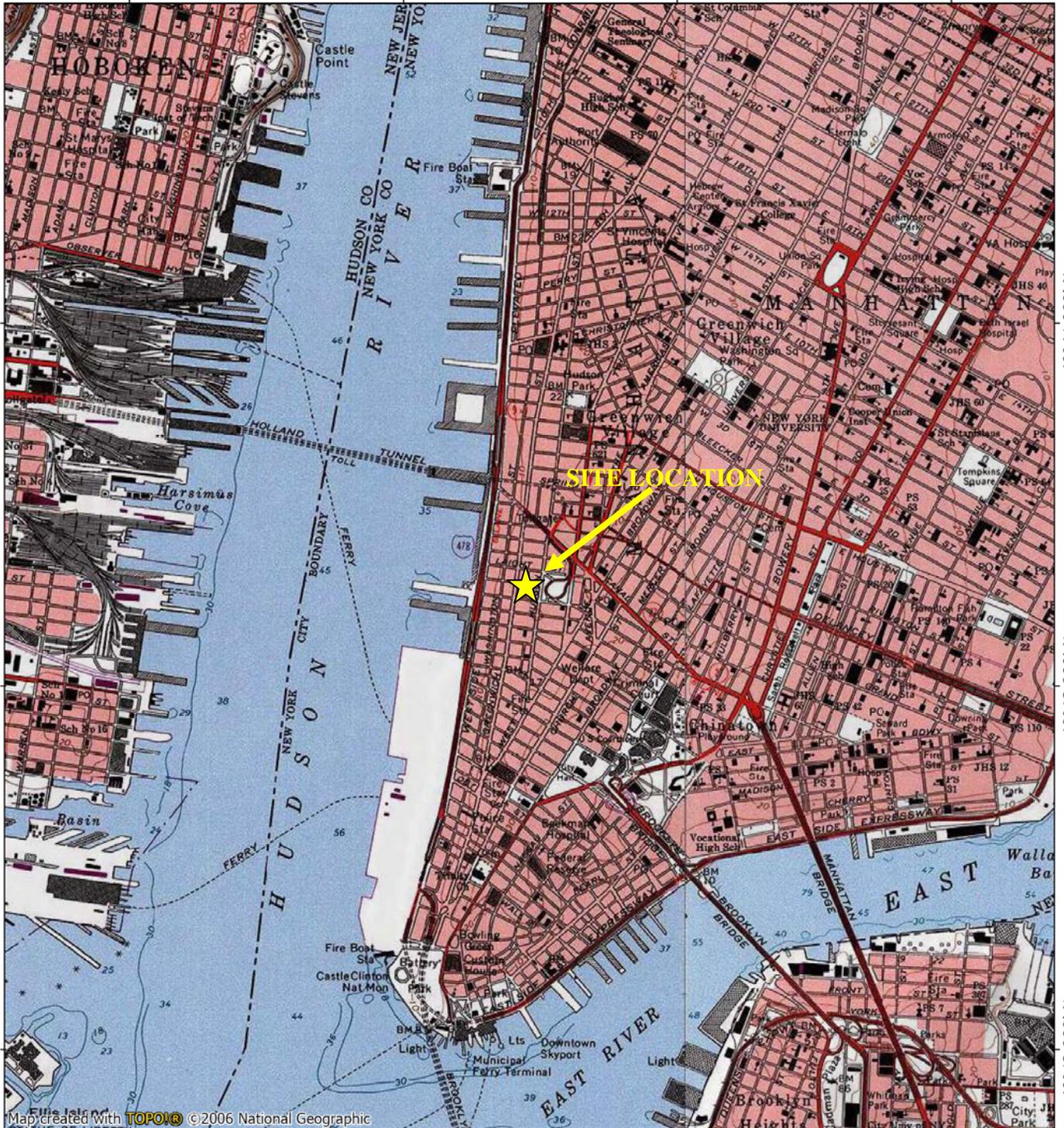
40°44.000' N

40°43.000' N

40°43.000' N

40°42.000' N

40°42.000' N

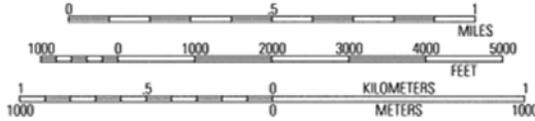


Map created with TOPO! © 2006 National Geographic

74°01.000' W

74°00.000' W

WGS84 73°59.000' W



MNI
 13°
 10/11/12

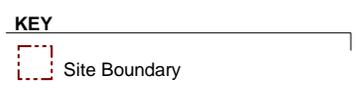
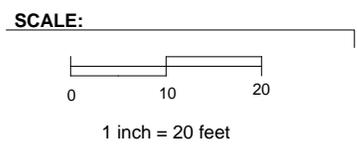
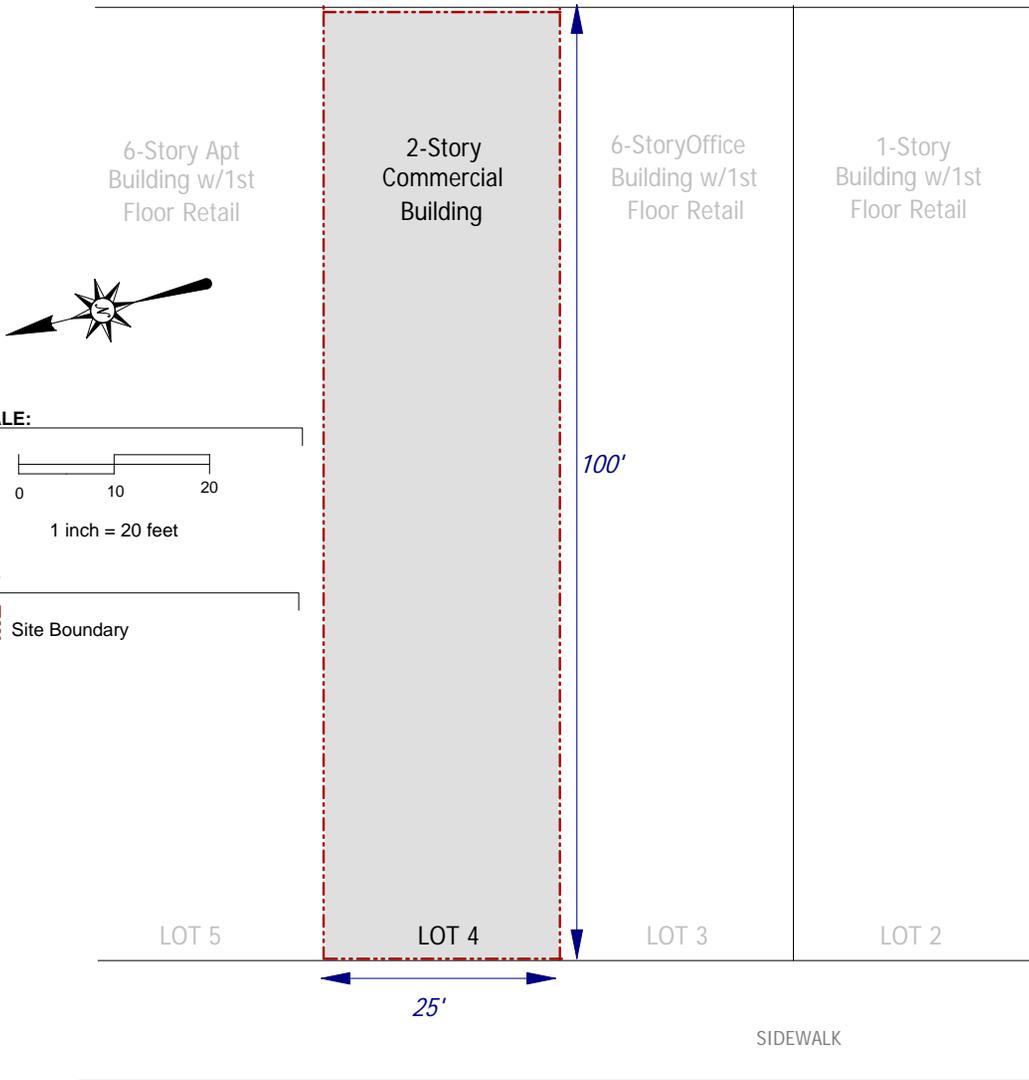


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403 GREENWICH STREET
 NEW YORK, NEW YORK 10013

FIGURE 1 - SITE LOCATION MAP



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FIGURE 2 SITE BOUNDARY

UNIT A: FLOORS 1-2 3-BEDROOM TOWN HOUSE 2,172 SF
UNIT B: FLOORS 3-4 3-BEDROOM DUPLEX 2,140 SF
UNIT C: FLOORS 4-5 3-BEDROOM DUPLEX 2,196 SF
UNIT D: FLOORS 6-9 6-BEDROOM PENTHOUSE 4,480 SF

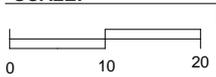
REAR YARD
TOTAL AREA: 771 SF

9-STORY
RESIDENTIAL
BUILDING
TOTAL AREA:
15,668 SF

100'



SCALE:



1 inch = 20 feet

KEY

Site Boundary

LOT 5

LOT 4

LOT 3

LOT 2

25'

SIDEWALK

BEACH STREET

GREENWICH STREET

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FIGURE 3 REDEVELOPMENT
PLANS

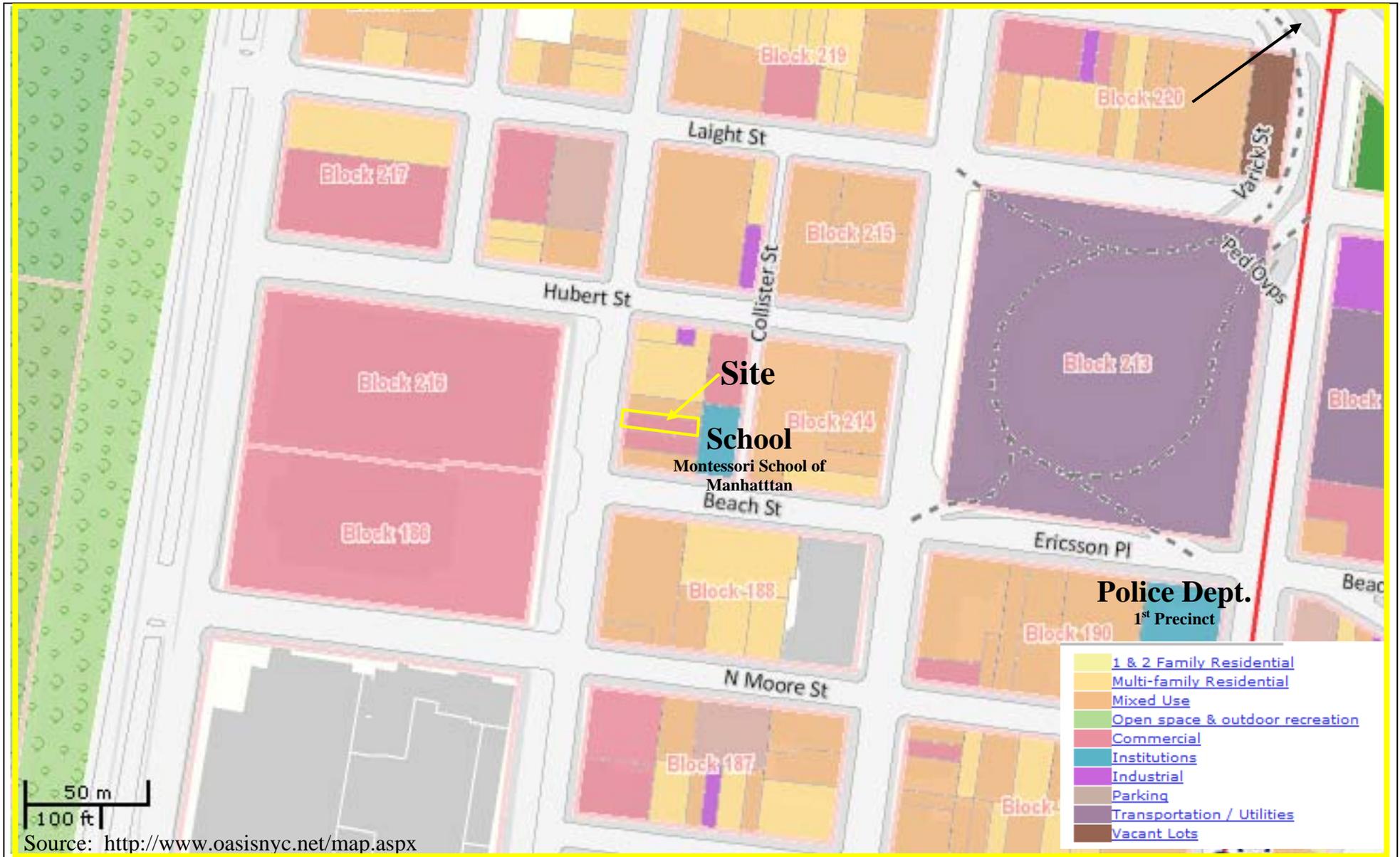


FIGURE 4
SURROUNDING LAND USE MAP

403 GREENWICH STREET
 MANHATTAN, NY 10013



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KEY

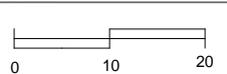
-  Site Boundary

- Bx**  Soil Boring Location

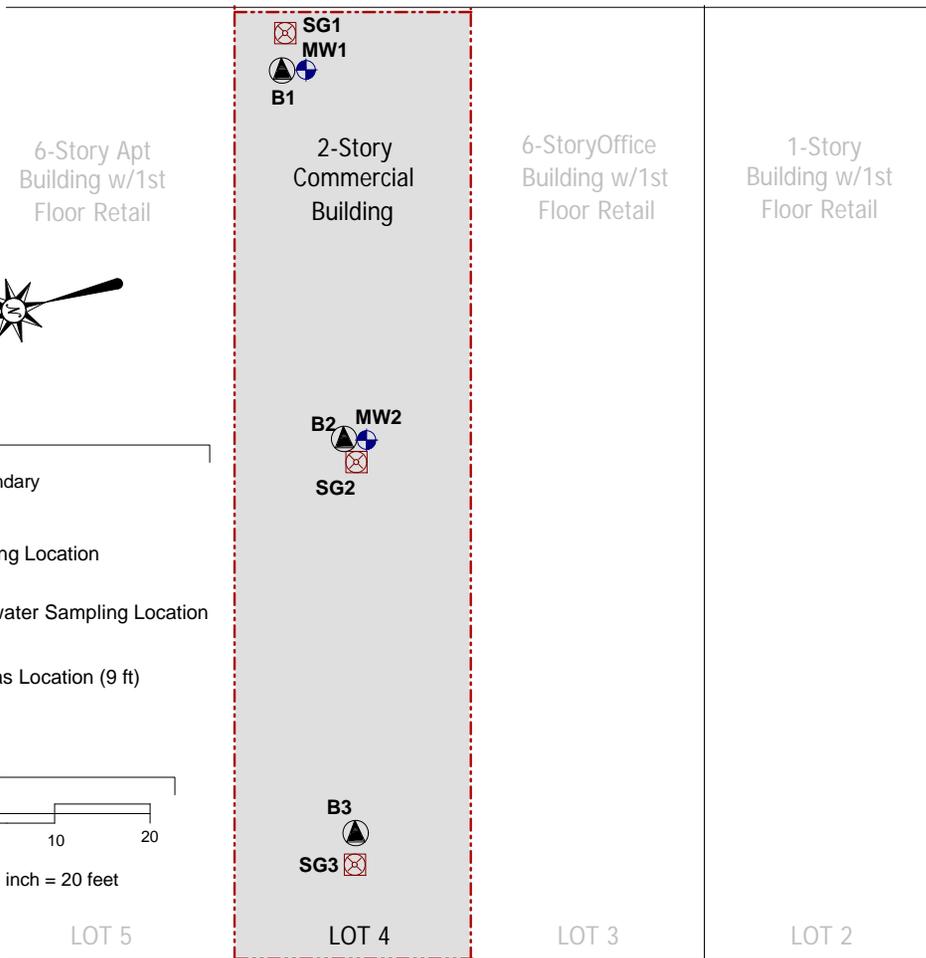
- MWx**  Groundwater Sampling Location

- SGx**  Soil Gas Location (9 ft)

SCALE:



1 inch = 20 feet



BEACH STREET

GREENWICH STREET

SIDEWALK

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403 GREENWICH STREET
MANHATTAN, NY 10013

FIGURE 5 SITE PLAN

B1 (0-2')	
Benzo(a)anthracene	21,000
Benzo(a)pyrene	18,000
Benzo(b)fluoranthene	22,000
Benzo(k)fluoranthene	5,400
Chrysene	21,000
Dibenzo(a,h)anthracene	3,800
Indeno(1,2,3-cd)pyrene	9,500
Barium	762
Lead	7,280
Mercury	0.82
Zinc	545

6-Story Apt Building w/1st Floor Retail

2-Story Commercial Building

6-Story Office Building w/1st Floor Retail

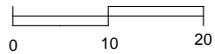
1-Story Building w/1st Floor Retail

B2 (0-2')	
Lead	82

B3 (0-2')	
Indeno(1,2,3-cd)pyrene	510
Copper	91.9
Lead	194
Mercury	0.22
Zinc	176



SCALE:



1 inch = 20 feet

KEY

Site Boundary

Bx Soil Boring Location

MWx Groundwater Sampling Location

SGx Soil Gas Location (9 ft)

SVOCs/Pesticides	ppb
Metals	ppm

Exceedence of Restricted Residential SCO

Exceedence of Unrestricted Use SCO

LOT 5

LOT 4

LOT 3

LOT 2

MW3

SIDEWALK

BEACH STREET

GREENWICH STREET

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FIGURE 6 SOIL EXCEEDANCE MAP

MW1	
Total Metals	
Iron	2,880
Magnesium	42,000
Manganese	1,920
Sodium	176,000
Lead	40
Dissolved Metals	
Magnesium	44,300
Manganese	1,890
Sodium	191,000

6-Story Apt Building w/1st Floor Retail

2-Story Commercial Building

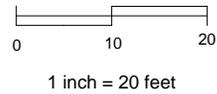
6-Story Office Building w/1st Floor Retail

1-Story Building w/1st Floor Retail

MW2	
SVOCs	
Benzo(a)anthracene	0.27
Benzo(b)fluoranthene	0.31
Benzo(k)fluoranthene	0.09
Chrysene	0.26
Indeno(1,2,3-cd)pyrene	0.12
Total Metals	
Iron	664
Magnesium	63,600
Manganese	18,200
Sodium	580,000
Dissolved Metals	
Magnesium	65,500
Manganese	17,300
Sodium	587,000



SCALE:



KEY

- Site Boundary
- Bx Soil Boring Location
- MWx Groundwater Sampling Location
- SGx Soil Gas Location (9 ft)

Compound	ppb

Results based on NYSDEC Groundwater Quality Standards

LOT 5

LOT 4

LOT 3

LOT 2

MW3

SIDEWALK

GREENWICH STREET

BEACH STREET

MW3	
Total Metals	
Iron	845
Magnesium	48,300
Manganese	7,020
Sodium	558,000
Dissolved Metals	
Magnesium	53,100
Manganese	6,600
Sodium	715,000

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FIGURE 7 GROUNDWATER EXCEEDANCE MAP

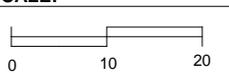


SG1	
1,2,4-Trimethylbenzene	3.93
1,3,5-Trimethylbenzene	1.42
1,3-Dichlorobenzene	2.22
4-Ethyltoluene	1.23
4-Methyl-2-pentanone	3.11
Acetone	8.97
Carbon Tetrachloride	0.566
Dichlorodifluoromethane	2.27
Ethanol	56.5
Ethylbenzene	1.56
Hexane	2.75
Isopropylalcohol	4.22
Xylene (m&p)	6.2
Methyl Ethyl Ketone	3.33
Methylene Chloride	70.5
Xylene (o)	2.39
Tetrachloroethene	0.407
Tetrahydrofuran	2.42
Toluene	2.79
Trichlorofluoromethane	1.52

SG2	
1,2,4-Trimethylbenzene	2.95
1,3,5-Trimethylbenzene	1.03
1,3-Dichlorobenzene	3
4-Methyl-2-pentanone	2.37
Acetone	8
Carbon Disulfide	1.21
Carbon Tetrachloride	0.566
Chloroform	1.66
Dichlorodifluoromethane	2.37
Ethanol	49.5
Ethylbenzene	1.39
Hexane	1.51
Isopropylalcohol	3.64
Xylene (m&p)	5.81
Methyl Ethyl Ketone	3.74
Methylene Chloride	6.08
Xylene (o)	2.34
Tetrachloroethene	2.1
Tetrahydrofuran	5.89
Toluene	2.3
Trichlorofluoromethane	1.57

SG3	
1,2,4-Trimethylbenzene	12.7
1,3,5-Trimethylbenzene	2.5
1,3-Dichlorobenzene	3.18
4-Ethyltoluene	2.11
4-Methyl-2-pentanone	5.36
Acetone	16.8
Benzene	2.08
Carbon Disulfide	7.72
Carbon Tetrachloride	0.817
Chloroform	12.7
Cyclohexane	3.06
Dichlorodifluoromethane	4.4
Ethanol	75.3
Ethylbenzene	3.78
Heptane	1.8
Hexane	2.85
Isopropylalcohol	7.59
Xylene (m&p)	14.6
Methyl Ethyl Ketone	9.87
Methylene Chloride	30
Xylene (o)	5.9
Tetrachloroethene	10.4
Tetrahydrofuran	21.2
Toluene	9.68
Trichloroethene	1.56
Trichlorofluoromethane	2.98
Trichlorotrifluoroethane	1.22

SCALE:



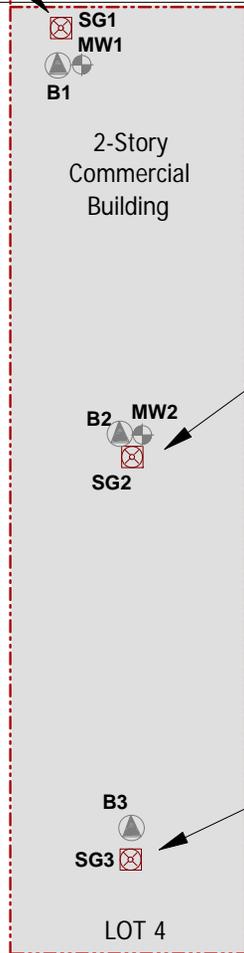
1 inch = 20 feet

KEY

- Site Boundary
- Bx Soil Boring Location
- MWx Groundwater Sampling Location
- SGx Soil Gas Location (9 ft)

Compound $\mu\text{g}/\text{m}^3$

Value Detected Above NYSDOH Air Guidance Value, requires monitoring.



GREENWICH STREET

BEACH STREET

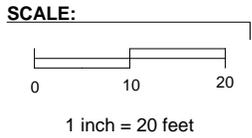
EBC
ENVIRONMENTAL BUSINESS CONSULTANTS

Phone 631.504.6000
Fax 631.924.2870

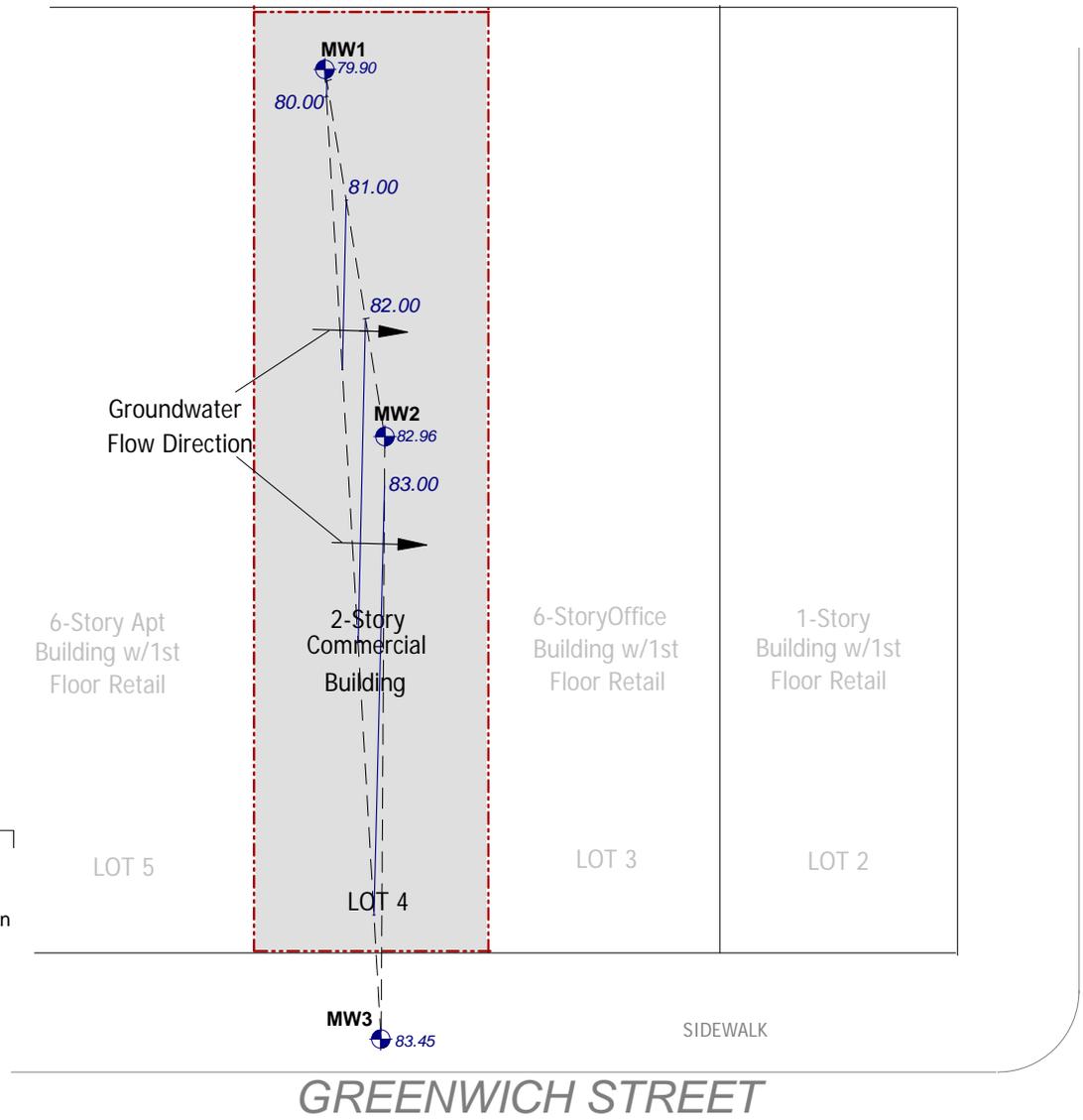
403 GREENWICH STREET
MANHATTAN, NY 10013

FIGURE 8

**SOIL GAS
DETECTIONS**



- KEY**
-  Site Boundary
 -  Groundwater Sampling Location
 -  Groundwater Flow Direction
 -  Groundwater Contour Line



APPENDIX A
PHASE I REPORT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

403 Greenwich Street
New York, New York 10013



Prepared for:
Colonnade Group LLC/ 403 Greenwich Enterprises
New York, New York

July 31, 2012
IVI Project No.: PC2071111



IVI Assessment Services, Inc.

THIS REPORT IS THE PROPERTY OF IVI AND COLONNADE GROUP LLC/ 403 GREENWICH ENTERPRISES AND WAS PREPARED FOR A SPECIFIC USE, PURPOSE, AND RELIANCE AS DEFINED WITHIN THE AGREEMENT BETWEEN IVI AND COLONNADE GROUP LLC/ 403 GREENWICH ENTERPRISES AND WITHIN THIS REPORT. THERE SHALL BE NO THIRD PARTY BENEFICIARIES, INTENDED OR IMPLIED, UNLESS SPECIFICALLY IDENTIFIED HEREIN.



**PROPERTY CONDITION & ENVIRONMENTAL
DUE-DILIGENCE**

IVI ASSESSMENT SERVICES, INC.

55 West Red Oak Lane
White Plains, New York 10604
(914) 694-9600 (tel)
(914) 694-1335 (fax)
www.ivi-intl.com

July 31, 2012

Mr. Greg Altshuler
Principal
Colonnade Group LLC/ 403 Greenwich Enterprises
77 Fifth Avenue, Suite 4A
New York, New York 10003
(212) 741-3840 (tel)
(212) 202-5169 (fax)
galtshuler@colonnadegrp.com

Re: Phase I Environmental Site Assessment
403 Greenwich Street
New York, New York 10013
IVI Project No.: PC2071111

Dear Mr. Altshuler:

IVI Assessment Services, Inc. ("IVI") is pleased to submit this copy of our Phase I Environmental Site Assessment on the above-referenced property. This report outlines the findings of IVI's site reconnaissance, historical land use research, review of governmental records, interviews, and our Pre-Survey Questionnaire.

I declare that, to the best of my professional knowledge and belief, I meet the definition of *environmental professional* as defined in § 312.10 of 40 CFR 312 and I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the *subject property*. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Please contact the undersigned at **914.740.1936** or by email at danielle.wing@ivi-intl.com should you have any questions.

Sincerely,

IVI Assessment Services, Inc.

Danielle Wing
Environmental Professional

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LOS ANGELES · MIAMI · WASHINGTON, D.C.
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This report documents IVI's findings from our Phase I Environmental Site Assessment on the property located at 403 Greenwich Street, New York, New York (the "Subject"). The property, which is situated in an urban area characterized by residential, retail and office development, consists of a 0.06-acre parcel improved with a 65-year-old, 4,375 SF mixed-use office and retail building. Of note, the Subject building is currently vacant. Prior to the construction of the existing improvements, the site, according to historical Sanborn maps, consisted of a 4-story residential building that included a street-level retail space from at least 1894 to 1922. In 1928 the Subject was vacant land. The current improvements at the Subject were constructed in 1947.

The purpose of this Phase I Environmental Site Assessment was to assess existing site conditions and render an opinion as to the identified or potential presence of recognized environmental conditions in connection with the property within the scope and limitations of ASTM International's Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-05 and the limitations identified herein. Exceptions to or deletions from the scope of work are described in Section 2.0.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Subject except for the following:

New York City Little "E" Designation

According to our research, on October 13, 2010, an "E" designation was declared for the Subject. An "E" designation is a zoning map designation that provides notice of the presence of an environmental requirement pertaining to potential hazardous materials contamination. "E" designations are established by the City Planning Commission and City Council as part of a change in zoning that would allow additional development to occur on property, or would permit uses not currently allowed. Based on our review of the New York City Department of Buildings (NYCDOB) Buildings Information System (BIS) and New York City Zoning Maps, an *E-257* designation related to the North Tribeca Rezoning Project, of which the Subject is a part of, has been placed on the Subject. The specific description of this designation is "Hazardous Materials" and "Window Wall Attenuation & Alternate Ventilation". Of importance, an "E" Designation does not implicate a contamination condition. It is solely applied as a precautionary measure these designated sites *may* potentially have levels of contamination.

"Hazardous Materials"

IVI reviewed a summary of the North Tribeca Rezoning Project, dated September 15, 2010. According to this document, an "E" designation for hazardous materials was mapped on-site as part of the proposed rezoning to avoid the potential for hazardous materials impacts on the Subject property. This "E" Designation also ensures that sampling and remediation take place where hazardous material contamination may exist. Before any new construction or change in use can take place on the property, the

environmental requirements of the “E” Designation need to be satisfied. This “E” designation requires that testing and sampling protocol and remediation (where appropriate) be conducted to the satisfaction of the New York City Department of Environmental Protection (NYCDEP) prior to the issuance of any permit by the New York City Department of Buildings (NYCDOB) pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). However, prior to the commencement of any sampling activities, a written approval of the sampling protocol must be received from the NYCDEP. These requirements also include a mandatory construction-related health and safety plan, which must also be approved by the NYCDEP. Upon completion of the samplings, a written report with findings and a summary of the data must be submitted to the NYCDEP after completion of the testing phase and laboratory analysis for review and approval. After receiving such tests results, a determination will be made by the NYCDEP if the results indicate that remediation is necessary.

It should be noted that the NYC E-Designation Review Program for Hazardous Materials, Air Quality, and Window/Wall Attenuation is currently administered by the NYC Office of Environmental Remediation (OER). The program was formerly administered by the NYCDEP. Since the building is scheduled for demolition, IVI recommends that all the environmental requirements of the “E” Designation be satisfied. Once the appropriate measures have been completed, IVI recommends that a “Notice of Satisfaction” be obtained from the NYC OER to ensure that the environmental requirements relating to the “E” designation have been completed.

In addition, the following items of environmental concern were identified, which warrant mention:

On-Site Monitoring Well

IVI observed one monitoring well on the western portion of the site along Greenwich Street. Reportedly, this monitoring well was installed in order to establish groundwater levels for the Subject’s foundation design. The well was fitted with a secured cap. Based solely on this information, IVI does not suspect this monitoring well to be of environmental concern to the Subject. Notwithstanding, IVI recommends obtaining and reviewing documentation confirming the purpose of this well installation.

Inaccessible Area

The basement at the Subject has been improved with a separation wall making the southern portion, approximate three-quarters of the basement inaccessible at the time of our site visit. In order to assess this portion of the basement, the property owner had access holes drilled into the separation wall, however the holes did not provide visual assessment of the inaccessible portion of the basement.

As part of a previous assessment, IVI was provided with an undated sketch of the inaccessible area. The sketch identified a room labeled “Existing Tanks”. The sketch

also indicted the area was “filled in”. Additionally, based on previous reports reviewed, the wall was noted to be a retaining wall constructed in the 1970’s when the building was enlarged into a two-story commercial establishment. No signs of an oil storage system were observed. A certificate of occupancy obtained from the NYC Dept. of Buildings, dated 1949, identifies the approval for fuel oil storage at the site. These documents together suggest the “Existing Tanks” were fuel oil tanks. It is unknown if these tanks were removed prior to this area of the basement being “filled”. However, since the building was apparently retrofitted from coal to oil, it is suspected the tanks would have been located above the buildings concrete basement floor. As such, it is unlikely that releases from the tanks, if any, would have the potential to impact the subsurface. Notwithstanding, no fill ports or vent pipes were observed and there is no evidence of petroleum staining or odors in the basement. As such, there is no evidence to suggest these tanks, if they remain on-site, are of environmental concern to the Subject. Notwithstanding, the Subject is proposed to be redeveloped. IVI recommends that care be taken during any excavation/redevelopment activities and that any encountered petroleum bulk storage tanks be removed in accordance with governmental regulations. Furthermore, any impacted soil associated with any encountered petroleum bulk storage tanks should be properly removed in accordance with governmental regulations.

Asbestos-Containing Material (ACM)

Based on the age of the site improvements, the potential use of ACMs exists. IVI observed friable suspect ACM in the form of acoustical ceiling tiles throughout the building. The condition of these materials was in generally fair to poor condition. In addition, the non-friable resilient floor finish assemblies, wallboard assemblies, plaster, roofing materials, caulking and mastics may contain asbestos. These materials were observed to be in generally poor to fair condition. In addition, it should be noted that other suspect ACM may exist in inaccessible locations such as behind walls, above ceilings and beneath visible flooring. Inasmuch as this building is scheduled for demolition activities, the potential for disturbance is high. IVI recommends that a pre-demolition asbestos survey be conducted by a Certified Asbestos Investigator prior to demolition activities. All activities involving ACM should be conducted in accordance with governmental regulations.

Lead-Based Paint (LBP)

Based upon the age of the structure, the use of LBP is suspected. Testing would need to be conducted in order to determine if LBP exists. Painted surfaces observed by IVI throughout the majority of the building were in generally fair condition. However IVI observed some painted surfaces in poor condition which exhibited evidence of pervasive peeling and flaking. Inasmuch as the building is scheduled for demolition activities, the potential for disturbance of the suspect LBP is high. IVI recommends that all activities involving suspect LBP be conducted in accordance with HUD guidelines, as well as the OSHA Lead in Construction regulations (CFR Part 1926.62) and RCRA guidelines.

2.1 General

IVI was retained by Colonnade Group LLC/ 403 Greenwich Enterprises (“Client” or “User”) to prepare a Phase I Environmental Site Assessment, in conformance with ASTM International's Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E 1527-05 on the Subject in accordance with our Agreement dated July 12, 2012.

2.2 Purpose and Scope**2.2.1 Purpose**

The purpose of this report is to identify Recognized Environmental Conditions in connection with the property, using the methodology recommended by ASTM International in order for a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser defenses to CERCLA liability and/or to help understand potential environmental conditions that could materially impact the operation of the business associated with the Subject. Specifically, this methodology is referred to as *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* Designation: E 1527-05.

The term Recognized Environmental Condition is defined by ASTM Standard E 1527-05 as “...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

2.2.2 Scope

In general, the scope of this assessment consisted of reviewing readily available information and environmental data relating to the property; interviewing readily available persons knowledgeable about the site; reviewing readily available maps, aerial photographs and records maintained by federal, state, and local regulatory agencies; and conducting a site visit.

Of importance, the client is advised that federal, state, and local laws may impose environmental assessment obligations beyond the scope of this practice. Client is also notified that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the Subject that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

The specific scope of this assignment included the following:

2.2.2.1 Performing a site reconnaissance to characterize on-site conditions and assess the site’s location with respect to surrounding property uses and natural surface features. In addition, IVI conducted a reconnaissance of the surrounding roads and readily accessible adjacent properties to identify obvious potential environmental conditions on neighboring properties. Photographs taken as part of the site reconnaissance are provided in Appendix A.

The site visit was conducted on July 20, 2012, by Ms. Kathryn Lehane representing IVI. The site was represented by Mr. Kazik Gac, from the Saif Foundation. It was overcast and the temperature was approximately 75° F at the time of our site survey. IVI conducted the site reconnaissance in a systematic manner focusing initially on the exterior, which was surveyed in a grid pattern. IVI also surveyed a representative sampling of the interior spaces in a systematic manner.

2.2.2.2 Interviewing persons familiar with the property to obtain information on present and previous on-site activities potentially resulting in the environmental degradation of the site or adjoining properties. A Pre-Survey Questionnaire to be filled out and returned to IVI by someone knowledgeable about the site was provided to Mr. Greg Altshuler. A blank copy of the Pre-Survey Questionnaire is provided in Appendix B.

The following table presents a summary of the individuals contacted or to whom requests for documentation were made as part of this assessment:

Name	Affiliation	Telephone No.
Building Information System (BIS)	New York City Department of Buildings	(212) 312-8062
Ms. Marie Dooley	New York City Department of Environmental Protection	(718) 595-6530



Name	Affiliation	Telephone No.
Mr. Fawzy Abdelsadek	New York State Department of Environmental Conservation	(718) 482-4949
Ms. Rena Bryant	New York City Health Department	(212) 788-5013
Bureau of Fire Prevention	New York City Fire Department	(718) 999-2442
Mr. Saif Sumaida	Foundations Group	Not Provided
Mr. Kazik Gac	Foundations Group	Not Provided

2.2.2.3 If provided, reviewing of information such as previously prepared appraisals, building plans and specifications, and environmental reports.

2.2.2.4 Reviewing readily available historical documents, such as topographic maps, aerial photographs, city directories, Sanborn Fire Insurance Maps and atlases, to identify previous activities on and in the vicinity of the Subject. Copies of these documents are included in Appendix C.

2.2.2.5 Reviewing readily available environmental databases maintained by federal, state, and local agencies within the approximate minimum search distances as described within the Regulatory Review Section 6.0 of this report. A copy of the Computerized Environmental Report, provided by Environmental Data Resources, Inc. can be referenced in Appendix D.

2.2.2.6 Conducting a visual survey of readily accessible common areas to identify the presence of the most obvious and common types of suspect asbestos containing materials (ACM). The basis for “suspect” determination is taken from the materials listed in Appendix G of the United States Environmental protection Agency (USEPA) publication Managing Asbestos in Place (also known as the Green Book). All building materials listed within Appendix G of the Green Book are considered to be suspect ACMs at the Subject. This screening is not intended to be used for demolition, abatement, renovation, or repair work.

THIS LIMITED SURVEY IS NOT TO BE CONSTRUED AS A COMPREHENSIVE ASBESTOS SURVEY, WHICH OFTEN ENTAILS DESTRUCTIVE TESTING OR THE SURVEY OF AREAS BEHIND WALLS, ABOVE CEILINGS, IN TENANT SPACES AND IN OTHER TYPICALLY INACCESSIBLE AREAS. MOREOVER, IVI DOES NOT WARRANT THAT ALL ACMs AT THE SUBJECT HAVE BEEN IDENTIFIED.



- 2.2.2.7** Reviewing published radon occurrence maps to determine whether the site is located in an area with a propensity for elevated radon concentrations.
- 2.2.2.8** An analysis of mold and/or mold issues was beyond the scope of this report.
- 2.2.2.9** Assessing the age of the Subject to determine whether it is predisposed to contain lead-based paint. During our walkthrough survey, IVI noted the condition of the paint observed. Note, a compliance audit for lead paint was not conducted.
- 2.2.2.10** Testing, if any, was designed solely to meet the requirements of the client’s scope of work, not to meet any local, State or Federal regulations and shall not be utilized as such.

2.3 Data Gaps

According to § 3.3.20 of ASTM Standard E 1527-05 a data gap is a lack of or inability to obtain information required by the ASTM Standard despite good faith efforts to gather same. Data gaps may result from incompleteness in any of the activities required by the ASTM Standard. The following data gaps occurred in connection with this report:

Data Gap	Explanation	Significance of Gap
Site History	History not conducted back to a time when the site was undeveloped land (See § 5)	Low - not likely to alter Report’s conclusions due to IVI’s search of standard historical sources of information such as aerial photographs, historic topographic maps, city directory abstracts, Sanborn Fire Insurance Maps, reviews of previous investigations and interviews with knowledgeable individuals who were familiar with the property.
Site History	Site history not conducted in 5-year intervals (See § 5)	Low - not likely to alter Report’s conclusions due to IVI’s search of standard historical sources of information such as aerial photographs, historic topographic maps, city directory abstracts, Sanborn Fire Insurance Maps, reviews of previous investigations and interviews with knowledgeable individuals who were familiar with the property.
User Interview	AAI User Questionnaire not returned to IVI	Low - not likely to alter Report’s conclusions



Data Gap	Explanation	Significance of Gap
Former Owner or Operator Interview	Unable to interview former site owner or operator due to inability to locate.	Low - not likely to alter Report's conclusions
Current Owner or Operator Interview	Pre-survey Questionnaire not returned to IVI	Low - not likely to alter Report's conclusions
Governmental Records	FOIAs not returned (See § 8.6)	Unknown - However, if receipt of FOIAs alters the Report's conclusion, the client will be notified
Inaccessible Areas	Approximately three-quarters of the basement, the roof, and portions of the interior of the building were inaccessible due to structural safety issues; accordingly, we make no representations with respect to same.	High - Recommend that area be surveyed



3.0 SALIENT ASSIGNMENT INFORMATION

403 Greenwich Street
New York, New York

Salient Assignment Information	
IVI Project No.:	PC2071111
Project Name:	403 Greenwich Street
Street Address:	403 Greenwich Street
City, State and Zip:	New York, New York 10013
Primary Use:	Former Office and Retail (Currently Vacant)
Year Built and Age of Improvements:	1947; 65 Years-Old
Site Area:	0.06-Acre
Building Size:	4,375 SFG
Number of Buildings:	One



4.1 Property Location

The site is located at 403 Greenwich Street in the Borough of Manhattan, New York City, New York County, New York and is identified on local tax maps as Block 214 Lot 4. Refer to the Site Plan provided within Appendix C.

4.2 Surrounding Land Use

The property is located in an urban setting characterized by residential, retail and office development. The following is a tabulation of surrounding property usage:

Direction	Adjacent Properties	Surrounding Properties
North	405 Greenwich Street a residential apartment building with a vacant commercial tenant space.	Residential and commercial development
South	401 Greenwich Street, a five story office building that includes street level cafe.	Residential and retail development
East	53-55 Beach Street (a/k/a Collister Street), a six story building housing a Montessori School and Horticultural Creations, a warehouse retail space.	Residential and commercial development
West	Beyond Greenwich Street is The Faulkner Center (390-392 Greenwich Street/35-49 Hubert Street/380-396 Washington Street/235-243 West Street/71-85 Beach Street), a high-rise office building with street level retail.	Office and retail development followed by the Hudson River

4.3 Physical Site Setting

4.3.1 Size and Shape of Parcel

The property is rectangular in shape and 0.06-acre in size.

4.3.2 Topography

The site is essentially level and at the same approximate topographic gradient as the surrounding properties. The topography of the area is best described as level. According to the United States Geological Survey (USGS) *Jersey City, N.J.-N.Y. 7.5 Minute Series* topographic map, the Subject’s topographic elevation is approximately 12’ above mean sea level (msl).



4.3.3 Surface Waters and Wetlands**Surface Waters**

There are no surface water bodies or streams on or adjacent to the Subject. The closest open surface water to the Subject is the Hudson River, which is located approximately 0.15-mile to the west.

Wetlands

IVI did not observe any areas suspected to be wetlands on-site.

4.3.4 Soils, Geology and Groundwater**Soils**

The soils at the site are classified as Urban Land. Urban Land complex are those soils in which the soil's original structure and content have been so altered by human activities it has lost its original characteristics and is thus unidentifiable.

Geology

The bedrock at the site is Precambrian in age, approximately one billion years old, and consists of gneiss and schists that are a part of the Manhattan Prong, a portion of the Appalachian Piedmont. The older of the Manhattan Prong sequence found in central Manhattan is the Manhattan Schist which is overlain by the Hartland Formation, a granulite. Both units are of very high metamorphic grade having been metamorphosed at a great depth in the earth's crust and later thrust to the surface during the Appalachian mountain building episode, about 350 million years ago.

During the last glacial period, ending about 12,000 to 15,000 years ago and termed the Wisconsin, a mantling of glacial drift was deposited over the older bedrock. In places the glacial deposits are unsorted till characterized by boulder to pebble-sized rocks erratically intermixed with a clay matrix, but elsewhere the deposits are sorted and stratified sand and gravel, the result of glacial outwash. The depth to bedrock is typically 20 to 30 feet below ground surface (bgs).

Groundwater

Subsurface water at the site is not used as a potable source. Groundwater in Manhattan is presumed to be degraded below potable water standards by several centuries of progressive contamination. The water table is

largely contained within the Wisconsin glacial drift and would presumably follow the local topography and hence flows west towards the nearby Hudson River. However, a number of now buried stream channels existed in the area prior to the existing high level of urbanization. These may provide preferred paths of flow, while subway tunnels, buried water and steam pipes, and other subsurface manmade objects may impede and redirect the natural groundwater flow. Infiltration to the watertable in the area is likely minimal due to the extensive paving and structures that cover most of the land surface in the vicinity.

Under natural, undisturbed conditions, shallow groundwater flow generally follows the topography of the land surface and on this basis; the topography suggests that groundwater flow across the site is in a westerly direction. However, localized conditions can alter flow direction and thus the presumed flow may not coincide with the actual in the subject area.

4.4 Site Improvements

4.4.1 Utilities

The Subject is served with the following utilities:

Water:	New York City Department of Environmental Protection (NYCDEP)
Sanitary Sewer:	NYCDEP
Storm Sewer:	NYCDEP
Electric:	Consolidated Edison (Con Ed)
Natural Gas:	Con Ed

Potable water is provided to the Subject via underground tunnels and pipes by the City of New York, which derives it from surface reservoirs in the Croton, Catskill, and Delaware watersheds.

Stormwater runoff collected by roof drains is discharged into the municipal stormwater management system.

4.4.2 Building Description

The Subject is improved with a 65-year-old, 4,375 SF, 2-story mixed-use retail and office building that is currently vacant. Site improvements include only the Subject structure and ancillary site improvements. The building has a basement featuring stone rubble walls, and a concrete separation that splits the basement into two rooms. The building consists of a superstructure of conventional wood framing. Exterior walls feature brick siding. The flat roof is covered with a modified bitumen system.

Interior finishes include floor coverings of carpet, resilient floor tile, sheet vinyl, ceramic tile; walls of painted gypsumboard and ceilings typically consist of a suspended system with inlaid acoustical ceiling tiles.

No heating or air conditioning is currently in-service at the Subject. Most recently, heating was provided by gas-fired rooftop package units and air conditioning was provided by electric rooftop package units and electric window mounted DX units. The Subject is not provided with vertical transportation systems.

4.5 Current Property Use

The Subject property is developed with a mixed-use office and retail building that is currently vacant. As such, significant quantities of hazardous waste are not generated. The current on-site activities are not suspected to have degraded the environmental quality of the Subject site.

4.6 Environmental Permits

Based on our research, no environmental permits such as wastewater discharge, National Pollutant Discharge Elimination System (NPDES), air emissions, or petroleum bulk storage (PBS) tank registrations are required at the Subject.

4.7 Plans and Specifications

Neither building drawings nor specifications were provided for our review.

5.1 Historical Summary

Prior to the construction of the existing improvements, the site, according to historical Sanborn maps, consisted of a 4-story residential building that included a street-level retail space from at least 1894 to 1922. In 1928 the Subject was vacant land. The current improvements at the Subject were constructed in 1947.

5.2 Topographic Maps

IVI reviewed the USGS *Jersey City, N.J.-N.Y. 7.5 Minute Series* topographic map of the Subject area, which is based on aerial photography taken in 1954, and was last revised in 1986.

The topographic map does not identify individual buildings or development on the Subject property due to the concentration of structures in the highly urbanized New York area, but rather shows the area to be shaded denoting urbanized land use, and identifies only landmarks as distinct structures. Nevertheless, the topographic map does not identify any industrial complexes, landfills or wetlands on or adjacent to the subject site.

5.3 Historical Maps

Sanborn Fire Insurance Maps (Sanborn Maps)

IVI had a search conducted for Sanborn Maps, which reference the property. The findings of this review are summarized below:

Year	Subject	Surrounding Properties
1894	The Subject is improved with a 4-story residential building that includes street-level retail space.	Property to the north is improved with low-rise residential development. To the south property is improved with low-rise residential and warehouse development. To the east property is improved with a six story building identified as a tin can manufacturer. To the west property is improved with several low-rise buildings.
1905	No significant differences exist from the previous Sanborn map reviewed except that there is now a one story attachment located on the east side of the Subject.	No significant differences exist from the previous Sanborn reviewed except that property to the north and east is now identified as storage and retail buildings.
1922	No significant differences exist from the previous Sanborn map reviewed.	No significant differences exist from the previous Sanborn map reviewed except that property to the north is now identified as the Progressive Warehouses.
1950	The Subject property is developed	No significant differences exist from the previous Sanborn map reviewed except



	with the existing improvements.	that property to the north is now identified as the Embassy Grocery Corp. and property to the east is identified as the Loring Lane Warehouse. Also property to the south is now occupied with an iron works.
1968	No significant differences exist from the previous Sanborn map reviewed except that the Subject is now identified as a garage and storage space.	No significant differences exist from the previous Sanborn map reviewed except that property to the west is now vacant.
1976	No significant differences exist from the previous Sanborn map reviewed except that the garage and storage space are no longer identified.	No significant differences exist from the previous Sanborn map reviewed.
1980	No significant differences exist from the previous Sanborn map reviewed.	No significant differences exist from the previous Sanborn map reviewed.
1985	No significant differences exist from the previous Sanborn map reviewed.	No significant differences exist from the previous Sanborn map reviewed.
1992	No significant differences exist from the previous Sanborn map reviewed.	No significant differences exist from the previous Sanborn map reviewed except property to the west is improved with a nine story office building.
1996	No significant differences exist from the previous Sanborn map reviewed.	No significant differences exist from the previous Sanborn map reviewed.

5.4 Aerial Photographs

Inasmuch as the Subject has been sufficiently covered by other standard historic information sources, aerial photographs were not consulted as part of this assessment.

5.5 Chain-of-Ownership

A copy of the Subject’s Chain-of-Title has not been provided to IVI for review.

5.6 Previous Reports

IVI previously conducted an assessment on the Subject titled, *Phase I Environmental Site Assessment, New York City Portfolio, 403 Greenwich Street, New York, New York 10013* dated August 16, 2007 on behalf of Anglo Irish Bank Corporation, Plc. According to our previous report, the Subject consisted of a four-story residential building that included a street level retail space from at least 1894 to 1922. In 1928 the Subject was vacant land. The current improvements at the Subject were constructed in 1947. The report revealed no evidence of recognized environmental conditions in connection with the Subject; however two items of environmental concern were identified:



- The basement at the Subject has been improved with a separation wall making the southern portion, approximate three-quarters, of the basement inaccessible at the time of our site visit. In order to assess this portion of the basement the property owner had access holes drilled into the separation wall, however the holes did not provide visual assessment of the inaccessible portion of the basement.
- Subsequently, IVI was provided with an undated sketch of the inaccessible area. The sketch identified a room labeled “Existing Tanks”. The sketch also indicated the area was “filled in”. A certificate of occupancy obtained from the NYC Dept. of Buildings, dated 1949, identifies the approval for fuel oil storage at the site. These documents together suggest the “Existing Tanks” were fuel oil tanks. It is unknown if these tanks were removed prior to this area of the basement being “filled”. However, since the building was apparently retrofitted from coal to oil, it is suspected the tanks would have been located above the buildings concrete basement floor. As such, it is unlikely that releases from the tanks, if any, would have the potential to impact the subsurface. Notwithstanding, no fill ports or vent pipes were observed and there is no evidence of petroleum staining or odors in the basement. As such, there is no evidence to suggest these tanks, if they remain on-site, are of environmental concern to the Subject and no further action is recommended.
- Based on the age of the improvements, the Subject’s friable acoustical ceiling tiles are suspected to contain asbestos. The ceiling tile was observed to be in good to fair condition. In addition, the non-friable resilient floor finish assemblies, built-up roofing system and wallboard assemblies may contain asbestos. For the most part, the condition of these non-friable materials ranged from good to fair. No further action was recommended, other than maintaining the materials in good condition under an Asbestos Operations and Maintenance (O&M) Program.
- As part of this Phase I, IVI summarized a previously conducted assessment conducted on the Subject, dated October 24, 2006, on behalf of NORD/LB. According to this report, the subject site was improved with single family residences prior to construction of the existing improvements. The report revealed no evidence of recognized environmental conditions in connection with the Subject; however two items of environmental concern were identified:
- The basement at the Subject has been improved with a separation wall making the southern portion, approximate three-quarters, of the basement inaccessible at the time of our site visit. IVI was provided with a letter report, prepared by KSM Engineering, P.C., dated October 9, 2006, addressing IVI’s concerns

with respect to the potential for tanks within the inaccessible areas. Reportedly, the owner had purchased the property in 1983 at which time the wall was already in place. Based on KSM Engineering, P.C.’s review, the wall appears to be a retaining wall constructed in the 1970’s when the building was enlarged into a two-story commercial establishment. No signs of an oil storage system were observed. However, IVI has opined that since the building was apparently retrofitted from coal to oil, it is suspected that historical heating oil tanks would have been located above the buildings concrete basement floor. As such, it is unlikely that releases from the tanks, if any, would have the potential to impact the subsurface. Notwithstanding, no fill ports or vent pipes were observed and there is no evidence of petroleum staining or odors in the basement. As such, there is no evidence to suggest these tanks, if they remain on-site, are of environmental concern to the Subject and no further action is recommended.

- Mounds indicative of trash or solid waste disposal were observed on the first floor of the subject. Some of the material identified included construction and demolition (C&D) debris such as concrete, wood, steel, and drywall and typical household trash. Potential sources of contamination, such as waste oil or automobile batteries, were not observed. Notwithstanding, it is recommended that the debris be removed and properly disposed. *These materials appear to have been removed from the Subject as no such materials were observed during IVI’s most recent site reconnaissance.*

Although requested, no additional previously prepared environmental reports such as Phase I or II Environmental Site Assessments, lead-based paint surveys, lead-in-water surveys, asbestos surveys, groundwater sampling results or geotechnical reports were provided for our review.

5.7 City Directories

Historical City Directories were not reviewed as a part of this assessment; however of note, City Directories obtained at the New York City Public Library were reviewed during the previous assessment conducted in 2006. These directories provide site occupant listings by address. This review yielded the following information:

Year	Subject Property	Surrounding Properties
1929	Subject not listed	<u>Greenwich St.</u> 401-Horseshoer 402-Greenwich Refrigeration 405 Baker Supplies <u>Beach St.</u> 63-65 Food Importer



1940	Subject not listed	<p><u>Greenwich St.</u> 401-Blacksmith 402-Trucking & Foundry Co., Greenwich Refrigeration 405 Warehousing 407-Embassy Grocery Corp & Coffee Co.</p>
1950	403 Greenwich St.-Jayspid Mfg. & Distribution	<p><u>Greenwich St.</u> 401-Blacksmith 402- Greenwich Refrigeration 405 Warehousing 406-Textile Testing & Research 407-Embassy Grocery Corp & Coffee Co. <u>Beach St.</u> 57 Trucking Co. 58-Seat Mfg.& Wizard Products <u>Hubert St.</u> 10-17-Trucking & Transportation Co.</p>
1962	403 Greenwich St.-Erie Steel Co. Inc.	<p><u>Greenwich St.</u> 402- Greenwich Refrigeration 406-Paper & Twine Co. 407-Embassy Grocery Corp & Lucky Boy Food Products <u>Beach St.</u> 53-Appliance-Packing & Warehouse Corp. 57 Collins Motor Freight <u>Hubert St.</u> 10-Erie Art Metal Co. & Janitor Supply Co. 11-HighwayTrans. Co. Inc. 12-Independent Warehouse 17-Central Food Co.</p>
1970	403 Greenwich St.-International Longshoreman's Assoc.	<p><u>Greenwich St.</u> 399-J&P Ice Cream Dist. 401- Warehousing 405 Salvage Co. <u>Beach St.</u> 53-Appliance-Packing & Warehouse Corp. 57 Collins Motor Freight <u>Hubert St.</u> 10-Andrea Electric Supply Co., warehouse</p>

5.8 Municipal Records

Tax Assessor Records



According to the tax assessor records reviewed, the Subject building was constructed on a 0.06-acre parcel. The Subject is identified on New York City tax maps as Block 214, Lot 4.

Building Department Records

IVI reviewed building permits and records for the Subject at the NYCDOB BIS website. No environmentally relevant permits were reviewed.

Certificate of Occupancy (C of O)

IVI reviewed historical information pertaining to the Subject maintained on the NYC Department of Building's, Building Information System (BIS). A review of these C of O's indicated the following:

1948, 1959- The Subject is improved with a 2-story building with storage and a boiler room in the cellar, a factory and storage area on the first floor, and a factory on the 2nd floor. A fuel oil permit application was approved by the Fire Department on October 29, 1947.

1984- The Subject is improved with a 2-story building with storage and a boiler room in the cellar, a store on the 1st floor and an office on the 2nd floor.

5.9 Internet Search

IVI conducted a cursory internet search for the Subject's name and address using the Google search engine on July 30, 2012. No environmentally related information was identified on the first page of the Google search engine.

A copy of regulatory database information contained within a Computerized Environmental Report (CER) provided by Environmental Data Resources, Inc. (EDR) appears in Appendix D. The CER is a listing of sites identified on select federal and state standard source environmental databases within the approximate minimum search distance specified by ASTM Standard Practice for Environmental Site Assessments E 1527-05. IVI reviewed each environmental database to determine if certain sites identified in the CER are suspected to represent a material negative environmental impact to the Subject. The following table lists the number of sites by regulatory database within the prescribed minimum search distance appearing in the CER.

Databases Reviewed	Approximate Minimum Search Distance (AMSD)	Number of Sites Within AMSD
Federal National Priorities List (NPL) Site List	One-Mile	1
Federal Delisted NPL Site List	One-Half Mile	0
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	One-Half Mile	1
Federal CERCLIS No Further Remedial Action Planned (NFRAP) Sites	One-Half Mile	1
Federal Resource Conservation and Recovery Information System (RCRIS) Treatment, Storage, and Disposal (TSD) List	One-Half Mile	0
Federal RCRIS Generators List	On-Site and Adjoining Properties	1
Federal Corrective Action Tracking System (CORRACTS)	One-Mile	0
Federal Emergency Response Notification System (ERNS) List	On-Site	0
Federal Institutional/Engineering Control Registries	On-Site	0
New York and Tribal Lists of NPL Equivalent Hazardous Waste Sites Identified for Investigation and/or Remediation	One-Mile	0
New York and Tribal Lists of CERCLIS Equivalent Hazardous Waste Sites Identified for Investigation and/or Remediation	One-Half Mile	0
New York and Tribal Landfills or Solid Waste Facilities List	One-Half Mile	2
New York and Tribal Petroleum Bulk Storage Tank List	On-Site and Adjoining Properties	1
New York and Tribal Leaking UST/Spill List	One-Half Mile	87
New York and Tribal Institutional/Engineering Control	On-Site	0



Databases Reviewed	Approximate Minimum Search Distance (AMSD)	Number of Sites Within AMSD
Registries		
New York and Tribal Voluntary Cleanup Sites	One-Half Mile	0
New York and Tribal Brownfields Sites	One-Half Mile	1
“E” Designation Site	On-Site	1

The CER identified 20 "Orphan Sites". "Orphan Sites" are those sites that could not be mapped or "geocoded" due to inadequate address information. Refer to the CER for a list of these "Orphan Sites". IVI attempted to locate these sites via a review of street maps, vehicular reconnaissance and/or interviews with people familiar with the area. "Orphan Sites" that were identified in this manner were analyzed in their respective regulatory database below.

A description of the databases reviewed by IVI and an analysis of sites identified within the prescribed search area are presented below.

6.1 Federal Databases

NPL

The NPL database is a listing of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or “Superfund”). A site must be on the NPL to receive money from the Trust Fund for Remedial Action.

Analysis/Comment: The CER identified the following NPL site within the prescribed radius:

Property Name/ Address	Distance	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Hudson River PCBS No Street Applicable	0.165	West	Downgradient	Currently on the Final NPL

Based on the review of the CER and the EPA website, the Hudson River is listed on the NPL list. The Hudson River is a 315-mile river that flows from north to south through eastern New York. The river begins in Lake Tear of the Clouds in the Adirondack Mountains and forms the border between New York City and New Jersey at its mouth before emptying into the Upper New York Bay.



In 1980, Congress passed an amendment to the Clean Water Act that included the Hudson River PCB Reclamation Demonstration Project. Under this legislation, the EPA authorized a grant that would evaluate dredging alternatives for the project. The Hudson River site was given a Final NPL status in September 1984, and is currently still on the Final NPL list.

Of importance, this site is located hydrogeologically downgradient from the Subject and groundwater flow appears to be away from the Subject, towards the Hudson River. As such, IVI does not suspect this site of having had a significant negative environmental impact on the Subject.

Delisted NPL Site List

The EPA may delete a final NPL site if it determines that no further response is required to protect human health or the environment. Under Section 300.425(e) of the National Contingency Plan (55 FR 8845, March 8, 1990). Sites that have been deleted from the NPL remain eligible for further Superfund-financed remedial action in the unlikely event that conditions in the future warrant such action. Partial deletions can also be conducted at NPL sites.

Analysis/Comment: The CER did not identify Delisted NPL sites within the AMSD.

CERCLIS

CERCLIS is the USEPA's system for tracking potential hazardous-waste sites within the Superfund program. A site's presence on CERCLIS does not imply a level of federal activity or progress at a site, nor does it indicate that hazardous conditions necessarily exist at the location. Within one year of being entered into CERCLIS, the USEPA performs a preliminary assessment of a site. Based upon the results of the preliminary assessment, the USEPA may conduct additional investigation, which could lead to a site being listed on the NPL.

Analysis/Comment: The CER identified the following CERCLA site within the AMSD:

Property Name/ Address	Distance	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Hudson River PCBS No Street Applicable	0.165	West	Downgradient	Currently on the Final NPL

The above site was also identified on the NPL database. Refer to the NPL section above for further discussion.

CERCLIS No Further Remedial Action Planned (NFRAP) Sites

As of February 1995, CERCLIS sites designated “No Further Remedial Action Planned” (NFRAP) have been removed from the CERCLIS list. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to warrant Federal Superfund Action or NPL consideration.

Analysis/Comment: The CER identified the following CERCLA NFRAP site within the AMSD:

Property Name/ Address	Distance (Mile)	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
EPA Building 290 Broadway	0.482	SSE	Crossgradient	NFRAP

The EPA Building site located at 290 Broadway, has been granted a No Further Remedial Action Planned (NFRAP) status by the USEPA. NFRAP sites may be sites where, following an initial investigation, no contamination was found, or the contamination was either abated or the contamination was not significant enough to warrant Federal Superfund Action or NPL consideration.

Notwithstanding, this site is located a sufficient distance from the Subject so as not to be reasonably suspect of having impacted same. In addition, this site is located hydrogeologically crossgradient from the Subject and groundwater flow across this site is suspected to be away from the Subject. As such, IVI does not suspect this site of having had a significant negative environmental impact on the Subject.

RCRIS TSD

The RCRIS TSD contains information pertaining to those facilities that treat, store, or dispose of hazardous waste. While these facilities represent some form of hazardous waste activity, they are most significant if determined to be out of compliance or to have violations.

Analysis/Comment: The CER did not identify RCRIS TSD facilities within the AMSD.

RCRIS Generators

IVI reviewed the list of sites, which have filed notification with the USEPA in accordance with RCRA requirements. These sites include generators of hazardous waste regulated under RCRA. Under RCRA, hazardous waste

generators are classified by the quantity of hazardous waste generated in a calendar month into the following categories: Large Quantity Generator (LQG), greater than 1,000 kilograms (kg); Small Quantity Generator (SQG), 100 to 1,000 kg; and Conditionally-Exempt Small Quantity Generator (CESQG), less than 100 kg. RCRA Generators, while they represent some form of hazardous waste activity, are most significant if they are determined to have Class I Violations or to be non-compliant.

Analysis/Comment: The CER identified the following RCRA Generator located within the AMSD:

Property Name/ Address	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Citigroup 390 Greenwich Street	WNW	Downgradient	Compliant/No Violations

The Citigroup building at 390 Greenwich Street has been identified as a RCRA-LQG since 2011 and previously in 1987. Prior to 2011, the site was identified as a Non Generator from 1999 to 2007. Wastes generated include various ignitable wastes and corrosive hazardous wastes. No violations or compliance infractions were identified in connection with this listing. Of importance, this site is located hydrogeologically downgradient of the Subject and groundwater flow across this site is suspected to be away from the Subject, towards the Hudson River. Based on the above, IVI does not suspect this site of having a significant negative environmental impact on the Subject. Of note, this site was also identified on the RST database. Refer to the RST section below for further discussion.

Corrective Action Tracking System (CORRACTS)

CORRACTS is a list of facilities that are found to have had hazardous waste releases and require RCRA corrective action activity, which can range from site investigations to remediation.

Analysis/Comment: The CER did not identify CORRACTS sites within the AMSD.

ERNS

The ERNS is a database of notifications of oil discharges and hazardous substance releases made to the Federal government. These notifications are used by “On-Scene Coordinators” to determine an emergency response and release prevention. When a call is made to the National Response Center or one of the 10 USEPA Regions, a report is created containing all of the release information that the caller provided. This report is transferred to an appropriate agency to evaluate the need for a response and the records are electronically transferred to the ERNS database.

As such, if a reported release of oil or a hazardous substance is deemed to require a response, it should also be listed in the appropriate federal or state environmental database such as CERCLIS, state equivalent CERCLIS, or state leaking underground storage tank or spills lists.

Analysis/Comment: The CER did not identify the Subject on the ERNS database.

Federal Institutional Control/Engineering Control Registries

These Federal registries contain listings of those sites which have either engineering and/or institutional controls in place. Engineering controls include various physical control devices such as fences, caps, building slabs, paved areas, liners and treatment methods to eliminate pathways for regulated substances to enter the environment or affect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions (Activity and Use Limitations) are generally required as part of institutional controls.

Analysis/Comment: The CER did not identify the Subject on the Federal Institutional or Engineering Control registries.

6.2 New York State Department of Environmental Conservation (NYSDEC) and Tribal Databases

Registry of Inactive Hazardous Waste Disposal Sites (IHWDS) and Tribal NPL Equivalent State Hazardous Waste Sites (SHWS)

The IHWDS and Tribal NPL Equivalent SHWS list is an inventory of toxic sites listed by New York and/or Tribal Environmental and Health Authorities. These sites are either under remediation, or are currently under evaluation for further action, if necessary.

Analysis/Comment: The CER did not identify IHWDS and/or Tribal NPL Equivalent Hazardous Waste sites within the AMSD.

Vapor Intrusion Legacy Site List

"Vapor intrusion" refers to the process by which volatile chemicals move from a subsurface source into the indoor air of overlying or adjacent buildings. The subsurface source can either be contaminated groundwater or contaminated soil which releases vapors into the pore spaces in the soil. Improvements in analytical techniques and knowledge gained from site investigations in New York and other states has led to an increased awareness of soil vapor as a medium of concern and of the potential for exposures from the soil vapor intrusion pathway. Based on

this additional information, the NYSDEC is currently re-evaluating pre-2003 remedial decisions on IHWDS where chlorinated hydrocarbons were released to determine the possibility of vapor intrusion at the sites. The Vapor Intrusion Legacy Site List is a database of these sites.

Analysis/Comment: The CER did not identify Vapor Intrusion Legacy sites within a mile of the Subject.

New York and Tribal CERCLIS Equivalent Hazardous Waste Sites

The State HWS is an inventory of dumps, landfills, and other toxic sites listed by Environmental and Health Authorities. The Tribal NPL Equivalent HWS list is an inventory of toxic sites listed by Tribal Environmental and Health Authorities. These sites are either under remediation, or are currently under evaluation for further action, if necessary.

Analysis/Comment: The CER did not identify New York and/or Tribal CERCLIS Equivalent Hazardous Waste sites within the AMSD.

New York and/or Tribal Solid Waste Facilities (SWF) List

The SWF list is an inventory of landfills, incinerators, transfer stations, and other sites that manage solid wastes.

Analysis/Comment: The CER identified the following SWF sites the AMSD:

Property Name/ Address	Distance (Miles)	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Varlotta Construction Corp. West Street & Hubert Street	0.108	WNW	Crossgradient	Inactive

The location identified in the CER for this listing is at the intersection of West Street and Hubert Street. This site is identified as an inactive transfer facility and therefore solid waste was neither land-filled, disposed of, nor was it stored for extended periods of time at this site. As such, and since this site is located at an assumed crossgradient hydrogeologic position, IVI does not suspect this site to have had a negative environmental impact on the Subject.

Property Name/ Address	Distance (Miles)	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
Barretti Carting	0.335	North	Crossgradient	Inactive



Corp. 509 Greenwich Street				
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This site is an inactive transfer facility and therefore solid waste was neither land-filled, disposed of, nor was it stored for extended periods of time at this site. As such, and based on its distance from the Subject, in conjunction with being at an assumed crossgradient hydrogeologic position, IVI does not suspect this site to have had a negative environmental impact on the Subject.

Petroleum Bulk Storage (PBS) Tanks List and/or Tribal Registered Storage Tanks (RST) Facility List

The PBS Tank list is an inventory of registered liquid bulk storage tanks maintained either by the county or the NYSDEC. Inclusion of a site on the PBS Tank list does not necessarily constitute environmental contamination, but instead merely indicates the presence of registered bulk storage tanks.

Analysis/Comment: The CER identified the following PBS Tank sites within the AMSD:

Property Name/Address	Distance/Direction	Capacity (Gallons)	Product	PBS Number	Regulatory Status
Solomon Smith & Barney 390 Greenwich Street	Adjacent/ South	20,000 (UST)	Not Reported	2-273074	In Service

This site is not identified on any additional databases indicative of a contamination condition such as the LUST/Spills databases. As such, IVI does not suspect this PBS tank sites to have had a negative environmental impact on the Subject.

New York Leaking Underground Storage Tanks (LUST) and Spill Lists

The LUST list is an inventory of spills and leaks, both active and inactive reported to regulatory authorities. They include stationary and non-stationary source spills reported to state and federal agencies, including remediated and contaminated leaking UST sites. The Spills list is a compilation of data collected on spills and reported to the NYSDEC pursuant to either Article 12 of the Navigation Law, or 6 NYCRR Section 595.2.

Analysis/Comment: The CER identified 87 LUST/Spill sites within the prescribed search distance. Of these 87 sites, all are either located over one-eighth mile away from the Subject, and based on the general non-sensitivity of the urban setting of the Subject, are not considered to represent a significant environmental concern; and/or have been granted a “Case Closed” status by the



NYSDEC. This classification is granted to those sites that have been remediated to the satisfaction of the NYSDEC or are not suspected to pose a significant threat to human health or the environment. As such, IVI does not suspect that these remaining sites have had a negative environmental impact upon the Subject.

New York and Tribal Institutional Control/Engineering Control Registries

According to the NYSDEC website, Institutional Controls shall mean any non-physical means of enforcing a restriction on the use of real property that limits human or environmental exposure, restricts the use of groundwater, provides notice to potential owners, operators, or members of the public, or prevents actions that would interfere with the effectiveness of a remedial program or with the effectiveness and/or integrity of operation, maintenance, or monitoring activities at or pertaining to a brownfield site.

Engineering Control shall mean any physical barrier or method employed to actively or passively contain, stabilize, or monitor hazardous waste or petroleum, restrict the movement of hazardous waste or petroleum to ensure the long-term effectiveness of a remedial program, or eliminate potential exposure pathways to hazardous waste or petroleum. Engineering controls include, but are not limited to, pavement, caps, covers, subsurface barriers, vapor barriers, slurry walls, building ventilation systems, fences, access controls, provision of alternative water supplies via connection to an existing public water supply, adding treatment technologies to such water supplies, and installing filtration devices on private water supplies.

- If an IC/EC is used as a component of a site cleanup plan, the Remedial Work Plan must include: a complete description of the IC/ECs and the mechanisms that will be used to implement, maintain, monitor, and enforce such restrictions and controls, both by the applicant and by any state and local government, and an evaluation of the reliability, viability, and costs of the long-term implementation, maintenance, monitoring, and enforcement of any IC/EC.
- Financial assurance for the long-term maintenance, monitoring, and enforcement of IC/ECs may be required.
- Any EC must be used in conjunction with an IC.
- The final remediation report must include a certification that any IC/ECs are included in an environmental easement that has been duly recorded.
- An annual certification that the IC/ECs are in place and protective of public health and the environment must be submitted to the NYSDEC.
- The NYSDEC must create, update, and maintain a data base available to the public of sites using IC/ECs.
- Any proposal for a change in site use must include an evaluation of the impacts of the change on the viability, reliability, and effectiveness of any IC/ECs.

Analysis/Comment: The CER did not identify the Subject on the New York and Tribal Institutional or Engineering Control registries.

New York and Tribal Voluntary Cleanup Program Sites

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. New York's Voluntary Cleanup Program is a cooperative approach among the NYSDEC, lenders, developers and prospective purchasers to investigate and/or remediate contaminated sites. Under the VCP, a volunteer performs remedial activities pursuant to one or more NYSDEC approved work plans. The volunteer agrees to remediate the site to a level which is protective of public health and the environment for the present or intended use of the property. Investigation and remediation is carried out under the oversight of the NYSDEC and the New York State Department of Health (DOH) and the volunteer pays the State's oversight costs. When the volunteer completes work, a release from liability from the NYSDEC is provided with standard reservations. Once the required remedial actions have been completed, the NYSDEC issues a letter declaring that it agrees that the volunteer has met their obligations and that, barring an event triggering a reopener, the Department does not contemplate further action will need to be taken at the site. Non-PRP volunteers also receive a release that covers natural resource damages. All of the volunteer's successors and assigns (except the site's PRPs) benefit from the release given to the volunteer. The NYSDEC's release binds only itself, and does not bind private parties harmed, does not bind the State's Attorney General, the State's Comptroller, and does not bind the USEPA.

The Release is subject to the following reservations for further investigation or remediation the NYSDEC deems necessary due to:

- Off-site migration of contamination causing significant impacts if the Volunteer is a PRP;
- Environmental conditions or information related to the Site that were unknown when the Release was issued and that indicate that site conditions under the Contemplated Use are not sufficiently protective of human health and the environment;
- Failure to comply with the VCA (e.g., not completing OM&M, not paying State costs, not maintaining use restrictions, etc.);
- Fraud committed by the Volunteer in entering into or implementing the VCA;
- A release, discharge or threat thereof after the effective date of the VCA; or
- A change of use where the new use requires a lower level of residual contamination.

Analysis/Comment: The CER did not identify VCP sites within the ASMD.

New York and Tribal Brownfield Sites

According to the NYSDEC website, brownfields are abandoned, idled, or under-used properties where expansion or redevelopment is complicated by real or perceived environmental contamination. They typically are former industrial or commercial properties where operations may have resulted in environmental contamination. Brownfields often pose not only environmental, but legal and financial burdens on communities. The impediments to contaminated site redevelopment in New York are complex. The existing liability scheme may hold all owners of contaminated property liable for cleanup costs, regardless of when or how the property was acquired. The potential cost of cleanup, which may not be known for certain at the time of purchase, is also a deterrent to parties wishing to build, relocate, or expand businesses. Lenders have been reluctant to extend credit for the purchase and cleanup of contaminated sites, fearing future liability issues.

A Brownfield Cleanup Agreement (BCA) is required for all parties who wish to participate in the Brownfield Cleanup Program. By executing a BCA, an Applicant makes a commitment to undertake certain remedial activities under the NYSDEC's oversight.

Analysis/Comment: The CER identified the following Brownfield site within a one-half mile radius of the Subject.

Property Name/ Address	Distance (Mile)	Direction	Presumed Hydrogeologic Relationship	Regulatory Status
West & Watts Development 281 West Street and 456 Washington Street	0.236	NNW	Downgradient	Active

According to the database, in October, 2010, the City Council adopted the North Tribeca Rezoning, which is intended to continue the neighborhoods transformation from industrial uses to residential uses. Information was submitted with the BCP application regarding the environmental condition at the site and is currently under review. No further information was available. Of importance, this site is located over one-eighth mile from the Subject, which is a sufficient distance so as not to be reasonably suspected of having impacted same. Furthermore, this site is located hydrogeologically downgradient of the Subject, as groundwater flow across this site is suspected to be in a westerly direction, towards the Hudson River. Based on the above, this site is not suspected of having a significant negative environmental impact on the Subject.

New York City Building Information System



The City Environmental Quality Review (CEQR) designation “E” on New York City Zoning Maps indicates that environmental requirements pertaining to potential hazardous material contamination or noise or air quality impacts have been established on one or more tax lots. These “E” designations function as indicators of the environmental review that must be conducted when the lots are developed in accordance with the regulations of the rezoned district.

New York City Zoning Resolution § 11-15 provides that the New York City Department of Buildings (NYCDOB) may not issue a building permit for work on a tax lot labeled with an “E” due to potential hazardous material contamination, if the building permit would allow: (1) a development; (2) an enlargement, extension or change of use involving a residential or community facility use; or (3) an enlargement that disturbs the soil. The NYCDOB identifies haz-mat “E” lots on its Building Information System (“BIS”).

An “E” designation for potential hazardous material contamination may be satisfied and removed from a zoning map following receipt of a report from the NYC Office of Environmental Remediation (OER) stating that the environmental requirements for the lot have been met. These requirements may include subsurface investigations and/or remediation of contamination to the satisfaction of the OER.

Analysis/Comment: Based on our review of the New York City Department of Buildings (NYCDOB) Buildings Information System (BIS) and New York City Zoning Maps, an “E” designation has been declared on the Subject. More specifically, an E-257 designation related to the North Tribeca Rezoning project, of which the Subject is a part of, has been placed on the Subject property effective October 13, 2010. The specific description of this designation is “Hazardous Materials” and “Window Wall Attenuation & Alternate Ventilation.”

IVI reviewed a summary of the North Tribeca Rezoning Project, dated September 15, 2010. According to this document, an “E” designation for hazardous materials was mapped on-site as part of the proposed rezoning to avoid the potential for hazardous materials impacts on the Subject property. This “E” Designation also ensures that sampling and remediation take place where hazardous material contamination may exist. Before any new construction or change in use can take place on the property, the environmental requirements of the “E” Designation need to be satisfied. This “E” designation requires that testing and sampling protocol and remediation (where appropriate) be conducted to the satisfaction of the New York City Department of Environmental Protection (NYCDEP) prior to the issuance of any permit by the New York City Department of Buildings (NYCDOB) pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). However, prior to the commencement of any sampling activities, a written approval of the sampling protocol must be received from the NYCDEP. These requirements also include a

mandatory construction-related health and safety plan, which must also be approved by the NYCDEP. Upon completion of the samplings, a written report with findings and a summary of the data must be submitted to NYCDEP after completion of the testing phase and laboratory analysis for review and approval. After receiving such tests results, a determination will be made by NYCDEP if the results indicate that remediation is necessary.

To avoid any potential impacts associated with noise, as part of the proposed rezoning, an “E” designation for noise was placed on Subject. More specifically, in order to ensure an acceptable interior noise environment, the Subject’s future residential use must provide a closed window condition with a minimum of 28 dB(A) window/wall attenuation in all facades in order to maintain an interior noise level of 45 dB(A). In order to maintain a closed-window condition, an alternate means of ventilation would also have to be provided. Alternate means of ventilation would include, but would not be limited to, central air conditioning or air conditioning sleeves containing air conditioners or HUD-approved fans. Inasmuch as this noise designation is not related to an environmental contamination condition, IVI does not suspect it to be of environmental concern to the Subject.

6.3 EDR Proprietary Databases

EDR Historic Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Analysis/Comment: The CER did not identify the Subject or any adjacent properties on the historical auto stations database.

EDR Historic Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Analysis/Comment: The CER did not identify the Subject or any adjacent properties on the historical cleaners database.

EDR Manufactured Gas Plants

This database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to the 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of wastes. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Analysis/Comment: The CER did not identify the Subject or any adjacent properties on the manufactured gas plant database.

7.1 Chemical Storage and Usage

As the Subject is currently vacant, no chemical storage was observed at the time of the site reconnaissance.

7.2 Bulk Storage Tanks**Underground Storage Tanks (USTs)**

No USTs were identified on the subject property and no common indicators of USTs such as vent pipes, fill ports, manways, pavement cuts, fuel gauges or dispensers were observed. Furthermore, the Subject site was not identified on the New York list of registered UST facilities.

No underground storage tanks were reportedly removed, closed-in-place or abandoned at the site and no common indicators of closed tanks were observed.

Aboveground Storage Tanks (ASTs)

No ASTs were observed and IVI did not identify any equipment, which should require such tanks. Moreover, visual indicators of former site ASTs, such as tank cradles, secondary containment structures, tank pedestals, etc., were not observed.

Worthy of note, much of the basement was inaccessible to IVI at the time of this assessment. Refer to Section 5.6 for further discussion of same and the potential for on-site ASTs.

7.3 Site Waste and Wastewater**Solid Waste**

Non-hazardous solid waste is disposed of in dumpsters and is removed from the Subject on a regular basis by the municipality. Potential sources of contamination, such as waste oil or automobile batteries, were not observed in the vicinity of the dumpsters.

Sanitary Sewage

Sanitary sewage disposal is provided by the NYCDEP. IVI did not observe any sources of wastewater or liquid discharge into the sewer other than sanitary sewage.

Hazardous Waste

No hazardous waste was observed or reported to be generated on the Subject. Furthermore, IVI's review of the USEPA's database of sites regulated under RCRA did not identify the Subject as a generator of hazardous waste.

7.4 Stained Soil, Stained Pavement, or Stressed Vegetation

There was no evidence of significant soil staining, stained pavement, or stressed vegetation observed on-site.

7.5 Liquid Discharges

No visible evidence of liquid discharges, suspected to represent an environmental concern were observed during our survey.

7.6 Pools of Liquid

IVI did not observe significant standing surface water or pools containing liquids likely to be hazardous substances or petroleum products.

7.7 Pits, Ponds, or Lagoons

No pits, ponds or lagoons suspected of containing hazardous substances or petroleum products were identified on-site.

7.8 Wells

IVI observed one monitoring well on the western portion of the site along Greenwich Street. Reportedly, this monitoring well was installed in order to establish groundwater levels for the Subject's foundation design. Based solely on this information, IVI does not suspect this monitoring well to be of environmental concern to the Subject. Notwithstanding, documentation confirming the purpose of this well installation was not provided for our review.

7.9 On-Site Fill

Based on our observations, other than typical engineered fill used in foundation construction, it does not appear that a significant amount of fill has been imported onto the Subject.

7.10 Drums and Containers for Storing Waste

With the exception of non-hazardous solid waste containers, IVI did not identify containers suspected of storing waste. With respect to the non-hazardous solid waste containers, no significant environmental concerns were noted.

7.11 Floor Drains and Sumps

IVI did not identify any floor drains or sumps that were stained, emitting foul odors, or connected to an on-site sewage disposal system, or located adjacent to chemical storage areas.

7.12 Odors

IVI did not identify strong, pungent, or noxious odors suspected to represent an environmental concern.

7.13 Air Emissions

IVI did not identify processes or equipment that emit noticeable vapors or fumes.

7.14 Polychlorinated Biphenyls (PCBs)

No electrical transformers, capacitors, hydraulic systems or other potentially PCB-containing equipment were observed on-site.

7.15 Asbestos-Containing Material (ACM)

Based on the age of the site improvements, the potential use of ACMs exists. IVI observed friable suspect ACM in the form of acoustical ceiling tiles throughout the building. The condition of these materials was in generally fair to poor condition. In addition, the non-friable resilient floor finish assemblies, wallboard assemblies, plaster, roofing materials, caulking and mastics may contain asbestos. These materials were observed to be in generally poor to fair condition. In addition, it should be noted that other suspect ACM may exist in inaccessible locations such as behind walls, above ceilings and beneath visible flooring. Inasmuch as this building is scheduled for demolition activities, the potential for disturbance is high.

7.16 Lead-in-Drinking Water

Based on our conversations with utility personnel, the water at the Subject is not expected to contain elevated levels of lead.

7.17 Radon

Based on statistical information maintained within the New York State Department of Health (NYS DOH)'s *Short Term Basement Radon Measurements by Town*, dated October 2011, radon concentrations in New York County average 2.15 picocuries per liter (pCi/L), which is below the 4.0 pCi/L action level established by the USEPA and places the Subject in a USEPA Radon Zone 3. Based solely on this data, it is unlikely that radon represents an environmental concern at this time.

7.18 Lead-Based Paint (LBP)

Based upon the age of the structure, the use of LBP is suspected. Testing would need to be conducted in order to determine if LBP exists. Painted surfaces observed by IVI throughout the majority of the building were in generally fair condition. However IVI observed some painted surfaces in poor condition which exhibited evidence of pervasive peeling and flaking. Inasmuch as the building is scheduled for demolition activities, the potential for disturbance of the suspect LBP is high.

8.1 Questionnaires

IVI sent a Pre-Survey Questionnaire and an AAI User Questionnaire to the site contact and the User, respectively. The purpose of these questionnaires was to disclose any previous or existing hazardous waste or toxic material conditions, which may not have been apparent at the time of our site reconnaissance and to satisfy the User interview all appropriate inquiry requirements.

As of this writing, neither the site contact nor the User have returned the completed questionnaires. IVI recommends that copies of the completed questionnaires be obtained.

8.2 User**8.2.1 Title Records**

A copy of the Subject's Chain-of-Title has not been provided to IVI for review.

8.2.2 Environmental Clean Up Liens and Activity and Use Limitations (AULs)

The User has not returned the AAI User Questionnaire. Of note, IVI engaged NETR Real Estate Research & Information to conduct an environmental lien search report for the Subject. According to this report, deed dated November 29, 2011 and recorded December 14, 2011, no environmental liens or AUL's were identified for the Subject. Please refer to Appendix F for a copy of the lien search report.

8.2.3 Specialized Knowledge

The User has not returned the AAI User Questionnaire.

8.2.4 Relationship of Purchase Price to Fair Market Value Due to Contamination in Connection with the Subject

The User has not returned the AAI User Questionnaire.

8.2.5 Common Knowledge or Reasonably Ascertainable Information

The User has not returned the AAI User Questionnaire.

8.2.6 Purpose for Conducting the Phase I Environmental Site Assessment

The User has not returned the AAI User Questionnaire.

8.2.7 Proceedings Involving the Property

The User has not returned the AAI User Questionnaire.

8.3 Key Site Manager**8.3.1 Historic Site Use**

Interviews pertaining to the historical site usage were not conducted as part of this review.

8.3.2 Proceedings Involving the Property

Information and interviews conducted pertaining to pending, threatened, or past litigation, administrative proceedings, or notices from governmental agencies regarding violations of environmental laws regarding hazardous substances or petroleum products were not reviewed as part of this assessment.

8.4 Occupants

As the Subject is currently vacant, site occupants were not available for interview at this time.

8.5 Past Owners

IVI was unable to locate the site's former owner.

8.6 Local Regulatory Agency Interviews and/or File Reviews**Fire Department**

IVI has sent a request to the New York City Fire Department for environmental information pertaining to the subject property. As of this writing, the Fire Department has not responded to our request. Should receipt of a response from the Fire Department change the conclusions of this report, the Client will be notified in writing by IVI.

Health Department

IVI has sent a request to the New York City Health Department for environmental information pertaining to the subject property. As of this writing, the Health Department has not responded to our request. Should receipt of a response from the Health Department change the conclusions of this report, the Client will be notified in writing by IVI.

Tax Assessor

According to the tax assessor records reviewed, the Subject building was constructed in 1947 on a 0.06-acre parcel. The Subject is identified on New York City tax maps as Block 214, Lot 4.

Building Department Records

IVI reviewed building permits and records for the Subject at the NYCDOB BIS website. No environmentally relevant permits were reviewed.

New York City Department of Environmental Protection (NYCDEP)

IVI has sent a request to the NYCDEP for environmental information pertaining to the Subject property. As of this writing, the NYCDEP has not responded to our request. Should receipt of a response from the NYCDEP change the conclusions of this report, the Client will be notified in writing by IVI.

New York State Department of Environmental Conservation (NYSDEC)

IVI has sent a request to the NYSDEC for environmental information pertaining to the Subject property. As of this writing, the NYSDEC has not responded to our request. Should receipt of a response from the NYSDEC change the conclusions of this report, the Client will be notified in writing by IVI.

Department of Planning and Zoning

Review of available zoning records maintained by the New York City Department of Buildings indicates that the Subject is currently zoned M1-5, a manufacturing district. In addition, the property listed under areas with City Environmental Quality Declarations (“E” designation) signifying potential environmental issues, which is further discussed in Section 6.2.

IVI has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E1527-05 of the property located at 403 Greenwich Street, New York, New York. Any exceptions to, or deletions from, the standard practice are described within Section 2.0 of this report.

This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Subject except for the following:

New York City Little “E” Designation

According to our research, on October 13, 2010, an “E” designation was declared for the Subject. An “E” designation is a zoning map designation that provides notice of the presence of an environmental requirement pertaining to potential hazardous materials contamination. “E” designations are established by the City Planning Commission and City Council as part of a change in zoning that would allow additional development to occur on property, or would permit uses not currently allowed. Based on our review of the New York City Department of Buildings (NYCDOB) Buildings Information System (BIS) and New York City Zoning Maps, an *E-257* designation related to the North Tribeca Rezoning Project, of which the Subject is a part of, has been placed on the Subject. The specific description of this designation is “Hazardous Materials” and “Window Wall Attenuation & Alternate Ventilation”. Of importance, an “E” Designation does not implicate a contamination condition. It is solely applied as a precautionary measure these designated sites *may* potentially have levels of contamination.

“Hazardous Materials”

IVI reviewed a summary of the North Tribeca Rezoning Project, dated September 15, 2010. According to this document, an “E” designation for hazardous materials was mapped on-site as part of the proposed rezoning to avoid the potential for hazardous materials impacts on the Subject property. This “E” Designation also ensures that sampling and remediation take place where hazardous material contamination may exist. Before any new construction or change in use can take place on the property, the environmental requirements of the “E” Designation need to be satisfied. This “E” designation requires that testing and sampling protocol and remediation (where appropriate) be conducted to the satisfaction of the New York City Department of Environmental Protection (NYCDEP) prior to the issuance of any permit by the New York City Department of Buildings (NYCDOB) pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). However, prior to the commencement of any sampling activities, a written approval of the sampling protocol must be received from the NYCDEP. These requirements also include a mandatory construction-related health and safety plan, which must also be approved by the NYCDEP. Upon completion of the samplings, a written report with findings and a summary of the data must be submitted to the NYCDEP after completion of the testing phase and laboratory analysis for review and approval. After receiving such tests results,

a determination will be made by the NYCDEP if the results indicate that remediation is necessary.

It should be noted that the NYC E-Designation Review Program for Hazardous Materials, Air Quality, and Window/Wall Attenuation is currently administered by the NYC Office of Environmental Remediation (OER). The program was formerly administered by the NYCDEP. Since the building is scheduled for demolition, IVI recommends that all the environmental requirements of the “E” Designation be satisfied. Once the appropriate measures have been completed, IVI recommends that a “Notice of Satisfaction” be obtained from the NYC OER to ensure that the environmental requirements relating to the “E” designation have been completed.

In addition, the following items of environmental concern were identified, which warrant mention:

On-Site Monitoring Well

IVI observed one monitoring well on the western portion of the site along Greenwich Street. Reportedly, this monitoring well was installed in order to establish groundwater levels for the Subject’s foundation design. The well was fitted with a secured cap. Based solely on this information, IVI does not suspect this monitoring well to be of environmental concern to the Subject. Notwithstanding, IVI recommends obtaining and reviewing documentation confirming the purpose of this well installation.

Inaccessible Area

The basement at the Subject has been improved with a separation wall making the southern portion, approximate three-quarters of the basement inaccessible at the time of our site visit. In order to assess this portion of the basement, the property owner had access holes drilled into the separation wall, however the holes did not provide visual assessment of the inaccessible portion of the basement.

As part of a previous assessment, IVI was provided with an undated sketch of the inaccessible area. The sketch identified a room labeled “Existing Tanks”. The sketch also indicated the area was “filled in”. Additionally, based on previous reports reviewed, the wall was noted to be a retaining wall constructed in the 1970’s when the building was enlarged into a two-story commercial establishment. No signs of an oil storage system were observed. A certificate of occupancy obtained from the NYC Dept. of Buildings, dated 1949, identifies the approval for fuel oil storage at the site. These documents together suggest the “Existing Tanks” were fuel oil tanks. It is unknown if these tanks were removed prior to this area of the basement being “filled”. However, since the building was apparently retrofitted from coal to oil, it is suspected the tanks would have been located above the buildings concrete basement floor. As such, it is unlikely that releases from the tanks, if any, would have the potential to impact the subsurface. Notwithstanding, no fill ports or vent pipes were observed and there is no evidence of

petroleum staining or odors in the basement. As such, there is no evidence to suggest these tanks, if they remain on-site, are of environmental concern to the Subject. Notwithstanding, the Subject is proposed to be redeveloped. IVI recommends that care be taken during any excavation/redevelopment activities and that any encountered petroleum bulk storage tanks be removed in accordance with governmental regulations. Furthermore, any impacted soil associated with any encountered petroleum bulk storage tanks should be properly removed in accordance with governmental regulations.

Asbestos-Containing Material (ACM)

Based on the age of the site improvements, the potential use of ACMs exists. IVI observed friable suspect ACM in the form of acoustical ceiling tiles throughout the building. The condition of these materials was in generally fair to poor condition. In addition, the non-friable resilient floor finish assemblies, wallboard assemblies, plaster, roofing materials, caulking and mastics may contain asbestos. These materials were observed to be in generally poor to fair condition. In addition, it should be noted that other suspect ACM may exist in inaccessible locations such as behind walls, above ceilings and beneath visible flooring. Inasmuch as this building is scheduled for demolition activities, the potential for disturbance is high. IVI recommends that a pre-demolition asbestos survey be conducted by a Certified Asbestos Investigator prior to demolition activities. All activities involving ACM should be conducted in accordance with governmental regulations.

Lead-Based Paint (LBP)

Based upon the age of the structure, the use of LBP is suspected. Testing would need to be conducted in order to determine if LBP exists. Painted surfaces observed by IVI throughout the majority of the building were in generally fair condition. However IVI observed some painted surfaces in poor condition which exhibited evidence of pervasive peeling and flaking. Inasmuch as the building is scheduled for demolition activities, the potential for disturbance of the suspect LBP is high. IVI recommends that all activities involving suspect LBP be conducted in accordance with HUD guidelines, as well as the OSHA Lead in Construction regulations (CFR Part 1926.62) and RCRA guidelines.

- 10.1** This report has been prepared in compliance with the ASTM standard entitled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” E1527-05.
- 10.2** The observations described in this report were made under the conditions stated herein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services within the constraints imposed by the client. The work described in this report was carried out in accordance with the Terms and Conditions of the contract.
- 10.3** In preparing this report, IVI has relied on certain information provided by federal, state, and local officials and other parties referenced therein, and on information contained in the files of governmental agencies, that were readily available to IVI at the time of this assessment. Although there may have been some degree of overlap in the information provided by these various sources, IVI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site assessment. Observations were made of the site and of the structures on the site as indicated in this report. Where access to portions of the site or to structures on the site was unavailable or limited, IVI renders no opinion as to the presence of direct or indirect evidence relating to petroleum substances, hazardous substances, or both, in that portion of the site and structure. In addition, IVI renders no opinion as to the presence of indirect evidence relating to hazardous material or oil, where direct observation of the ground surface, interior walls, floors, ceiling or a structure is obstructed by objects or materials, including snow, covering on or over these surfaces.
- 10.4** As part of this assessment, IVI submitted requests for information via the Freedom of Information Act (FOIA) to various governmental agencies. As of the preparation of this report these requests may not have been fulfilled. The conclusions of this report are subject to change upon receipt of a response from these FOIA requests.
- 10.5** IVI does not represent that the site referred to herein contains no petroleum or hazardous or toxic substances or other conditions beyond those observed by IVI during the site walkthrough.
- 10.6** IVI has produced this document under an agreement between IVI and Colonnade Group LLC/ 403 Greenwich Enterprises. All terms and conditions of that agreement are included within this document by reference. Any reliance upon this document, or upon IVI’s performance of services in preparing this document, is conditioned upon the relying party’s acceptance and acknowledgement of the limitations, qualifications, terms, conditions and indemnities set forth in that agreement, and property ownership/management disclosure limitations, if any. It is not to be relied upon by any party other than Colonnade Group LLC/ 403 Greenwich Enterprises nor used for any purpose other than that specifically stated in our Agreement or within this Report’s Introduction section without IVI’s advance and express written consent. The Phase I report is only valid if completed within 180 days of an acquisition or the transaction necessitating the report.
- 10.7 TIME LIMITATION TO ENACT CLAIM AGAINST IVI** If in the opinion of the client, or any third party claiming reliance on IVI’s report or services, that IVI was negligent or in breach of contract, such aforementioned parties shall have one year from the date of IVI’s site visit to make a claim.
- 10.8** Unless specifically identified within Section 2, Chinese drywall, indoor air quality and any other non-ASTM scope issues as identified in ASTM E1527-05, Section 13.1.5, are excluded from the scope of this assessment.

APPENDIX B
SOIL BORING LOGS

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B1 Boring Log

Location: Performed in the rear of the building. Same location as MW1, near SG1.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: CPL1201	Address: 403 Greenwich Street, New York, NY	Date	DTW
		Ground Elevation	
Drilling Company: LVS Drilling		Method: Geoprobe Macrocore	
Date Started: 9/4/2012		Date Completed: 9/4/2012	
Completion Depth: 16 feet		Field Technician D. Mosca	
		Groundwater depth ~13	Well Specifications

B1 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to	9		0.0	3" - Brick. 4" - Dark sandy fill material. 2" - Rock, concrete. <i>*Soil Sample retained B1(0-2).</i>
	4				
	to	9		0.0	9" - Dark sandy fill material, brick, concrete, etc.
	8				
	to	35		0.0	18" - Dark sandy fill material with some silt, brick, tile. 17" - Moist silty dark brown coarse sand with some crushed mica.
	12				
	to	48		0.0	12" - Cave in of fill material. 36" - Dark brown coarse sand and silt. <i>*Soil Sample retained B1(12-14).</i>
	16				

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B2 Boring Log

Location: Performed in the approximate center of the building. Same location as MW2, near SG2.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: CPL1201	Address: 403 Greenwich Street, New York, NY	Date	DTW
Drilling Company: LVS Drilling		Groundwater depth	
Method: Geoprobe Macrocore		~13	
Date Started: 9/4/2012	Date Completed: 9/4/2012	Well Specifications	
Completion Depth: 16 feet	Field Technician D. Mosca		

B2 (NTS)	(ft below grade)	Reco- very (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to	5		0.0	5" - Brick.
	4				<i>*Soil Sample retained B2(0-2).</i>
	to	15		0.0	15" - Brown sandy fill material,brick,gravel. Bottom 5" silty sand.
	8				
	to	40		0.0	24" - Grey/Brown sandy fill material,wood,brick,gravel. 10" - Native dark brown coarse sand with little gravel. 3" - Grey clay. 3" - Fine dark brown sand with silt.
	12				
	to	36		0.0	20" - Cave in of fill material. 16" - Saturated fine brown sand.
	16				<i>*Soil Sample retained B2(12-14).</i>

Geologic Boring Log Details



ENVIRONMENTAL BUSINESS CONSULTANTS

B3 Boring Log

Location: Performed in the front of the building, near SG2.		Depth to Water (ft. from grade.)	Site Elevation Datum
Site Name: CPL1201	Address: 403 Greenwich Street, New York, NY	Date	DTW
Drilling Company: LVS Drilling		Groundwater depth	
Method: Geoprobe Macrocore		~13	
Date Started: 9/4/2012	Date Completed: 9/4/2012	Well Specifications	
Completion Depth: 16 feet	Field Technician D. Mosca		

B3 (NTS)	(ft below grade)	Recovery (in.)	Blow per 6 in.	PID (ppm)	SOIL DESCRIPTION
	0				
	to	14		0.0	14" - Dark coarse sandy soil with large quartz rock and some coal.
	4				<i>*Soil Sample retained B3(0-2).</i>
	to	9		0.0	5" - Dark sandy soil with historic fill, coal, tile, gravel. 2" - Tan silty clay material, not native. No odor. 2" - Brick.
	8				
	to	15		0.0	5" - Brown fine silty sand with mica grains. 10" - Dark sandy fill material of brick, wire, coal, gravel.
	12				
	to	20		0.0	14" - Dark sandy fill material of brick, wire, coal, gravel. 6" - Damp brown silty sand.
	16				<i>*Soil Sample retained B3(12-14).</i>

APPENDIX C
GROUNDWATER SAMPLING LOGS

GROUNDWATER PURGE / SAMPLE LOGS



ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW1

Date: 9/11/2012

Well Depth (from TOC): 16

Equipment: Peristaltic Pump

Static Water Level (from TOC): 13.34

Height of Water in Well: 2.66

Gallons of Water per Well Volume: 0.1064

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min	0					turbid
5.00	400ml/min	0.55					Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS



ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW2

Date: 9/11/2012

Well Depth (from TOC): 16

Equipment: Peristaltic Pump

Static Water Level (from TOC): 13.45

Height of Water in Well: 2.55

Gallons of Water per Well Volume: 0.102

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min	0					turbid
5.00	400ml/min	0.55					Clear

Note 400 ml = 0.11 gallons

GROUNDWATER PURGE / SAMPLE LOGS



ENVIRONMENTAL BUSINESS CONSULTANTS

Well I.D.: MW3

Date: 9/11/2012

Well Depth (from TOC): 20

Equipment: Peristaltic Pump

Static Water Level (from TOC): 12.61

Height of Water in Well: 7.39

Gallons of Water per Well Volume: 0.2956

Flow Rate: 400ml/min.

Time	Pump Rate	Gal. Removed	pH	Cond. (mS/cm)	Temp. (deg. C)	DO (mg/L)	Comments
0.00	400ml/min	0					turbid
5.00	400ml/min	0.55					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 1 of 1
 Data Delivery: Fax #:
 Email: CSOS1K@earthlink.net
 Phone #:

Report to: _____
 Customer: EBC
 Address: 1808 Middle Country Road
Ridge, NY 11961

Invoice to: EBC
 Project Name: 403 GREENWICH ST, MANHATTAN
 Criteria Requested: Deliverable: RCP
 MCP
 State where samples collected: NY

Project Name: _____
 Criteria Requested: _____
 Deliverable: RCP
 MCP
 State where samples collected: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	THIS SECTION FOR LAB USE ONLY				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 (C) Composite (C)	ANALYSES	
				Outgoing Canister Pressure (°Hg)	Incoming Canister Pressure (°Hg)	Flow Regulator ID #	Flow Controller Setting (ml/min)										TO-14	TO-15
<u>67269</u>	<u>SG1</u>	<u>11292</u>	<u>6L</u>	<u>-30</u>	<u>3</u>	<u>4499</u>	<u>39.2</u>	<u>1030</u>	<u>1245</u>	<u>9-11-12</u>	<u>-30</u>	<u>-7</u>	<u>X</u>			<u>X</u>		
<u>67570</u>	<u>SG2</u>	<u>463</u>	<u>↓</u>	<u>↓</u>	<u>6</u>	<u>3412</u>	<u>40.1</u>	<u>1034</u>	<u>1215</u>	<u>9-11-12</u>	<u>-28</u>	<u>-7</u>	<u>X</u>			<u>X</u>		
<u>67571</u>	<u>* SG3</u>	<u>357</u>	<u>↓</u>	<u>↓</u>	<u>4</u>	<u>4960</u>	<u>40.5</u>	<u>1056</u>	<u>1110</u>	<u>9-11-12</u>	<u>-27</u>	<u>0</u>						
	<u>SG3</u>	<u>215</u>	<u>6L</u>	<u>-30</u>	<u>4</u>	<u>5350</u>		<u>1130</u>	<u>1324</u>	<u>9-11-12</u>	<u>-30</u>	<u>-6</u>	<u>X</u>			<u>X</u>		

Relinquished by: [Signature] Date: 9-12-12
 Accepted by: [Signature] Date: 9-12-12
 Data Format: Excel Equis GISKey
 PDF Other:

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
E-SITE PRICING
* CANISTER EMPTIED IN LESS THAN AN HOUR. CHECK REGULATOR. DO NOT ANALYZE
 I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:
 Signature: _____ Date: _____
 Quote Number: _____

APPENDIX E
LABORATORY REPORTS IN DIGITAL
FORMAT



Wednesday, September 12, 2012

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

Project ID: 403 GREENWICH STREET
Sample ID#s: BC64411 - BC64417

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

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

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

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

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

Sincerely yours,

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 12, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/04/12 0:00
 09/05/12 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64411

Project ID: 403 GREENWICH STREET
 Client ID: B1 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	09/06/12	LK	SW6010
Aluminum	5940	51	mg/Kg	09/06/12	LK	SW6010
Arsenic	6.6	0.7	mg/Kg	09/06/12	LK	SW6010
Barium	762	0.34	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.33	0.27	mg/Kg	09/06/12	LK	SW6010
Calcium	65300	51	mg/Kg	09/06/12	LK	SW6010
Cadmium	0.47	0.34	mg/Kg	09/06/12	LK	SW6010
Cobalt	4.31	0.34	mg/Kg	09/06/12	LK	SW6010
Chromium	18.3	0.34	mg/Kg	09/06/12	LK	SW6010
Copper	34.6	0.34	mg/kg	09/06/12	LK	SW6010
Iron	11700	51	mg/Kg	09/06/12	LK	SW6010
Mercury	0.82	0.08	mg/Kg	09/06/12	RS	SW-7471
Potassium	1740	5.1	mg/Kg	09/06/12	LK	SW6010
Magnesium	11200	51	mg/Kg	09/06/12	LK	SW6010
Manganese	277	3.4	mg/Kg	09/06/12	LK	SW6010
Sodium	1690	5.1	mg/Kg	09/06/12	LK	SW6010
Nickel	13.1	0.34	mg/Kg	09/06/12	LK	SW6010
Lead	7280	34	mg/Kg	09/07/12	EK	SW6010
Antimony	< 3.4	3.4	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.5	0.5	mg/Kg	09/06/12	LK	SW6010
Vanadium	18.6	0.34	mg/Kg	09/06/12	LK	SW6010
Zinc	545	3.4	mg/Kg	09/06/12	LK	SW6010
Percent Solid	90		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	72	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	72	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	78		%	09/06/12	AW	30 - 150 %
% TCMX	68		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND*	34	ug/Kg	09/07/12	MH	SW8081
4,4' -DDE	ND*	34	ug/Kg	09/07/12	MH	SW8081
4,4' -DDT	ND*	34	ug/Kg	09/07/12	MH	SW8081
a-BHC	ND*	17	ug/Kg	09/07/12	MH	SW8081
Alachlor	ND*	17	ug/Kg	09/07/12	MH	SW8081
Aldrin	ND*	5.4	ug/Kg	09/07/12	MH	SW8081
b-BHC	ND*	17	ug/Kg	09/07/12	MH	SW8081
Chlordane	ND*	54	ug/Kg	09/07/12	MH	SW8081
d-BHC	ND*	17	ug/Kg	09/07/12	MH	SW8081
Dieldrin	ND*	5.4	ug/Kg	09/07/12	MH	SW8081
Endosulfan I	ND*	17	ug/Kg	09/07/12	MH	SW8081
Endosulfan II	ND*	34	ug/Kg	09/07/12	MH	SW8081
Endosulfan sulfate	ND*	34	ug/Kg	09/07/12	MH	SW8081
Endrin	ND*	34	ug/Kg	09/07/12	MH	SW8081
Endrin aldehyde	ND*	34	ug/Kg	09/07/12	MH	SW8081
Endrin ketone	ND*	34	ug/Kg	09/07/12	MH	SW8081
g-BHC	ND*	5.4	ug/Kg	09/07/12	MH	SW8081
Heptachlor	ND*	11	ug/Kg	09/07/12	MH	SW8081
Heptachlor epoxide	ND*	17	ug/Kg	09/07/12	MH	SW8081
Methoxychlor	ND*	170	ug/Kg	09/07/12	MH	SW8081
Toxaphene	ND*	170	ug/Kg	09/07/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	Interference		%	09/07/12	MH	30 - 150 %
% TCMX	99		%	09/07/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	99	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	88		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	101		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	99		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	1200	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	510	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	510	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	510	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	1100	510	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	510	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	1200	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	730	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	510	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	1200	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	2100	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	730	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	510	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	510	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	1200	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	2100	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	3800	510	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	1900	510	ug/Kg	09/06/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	510	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	2100	ug/Kg	09/06/12	DD	SW 8270
Anthracene	9200	510	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	730	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	21000	510	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	870	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	18000	510	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	22000	510	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	9800	510	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	5400	510	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	2100	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	510	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	730	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	510	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Carbazole	2900	1100	ug/Kg	09/06/12	DD	SW 8270
Chrysene	21000	510	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	3800	510	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	3100	510	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	510	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	46000	510	ug/Kg	09/06/12	DD	SW 8270
Fluorene	3300	510	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	510	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	510	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	510	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	9500	510	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	510	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	1800	510	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	510	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	730	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	510	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	730	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	730	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	730	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	46000	510	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	510	ug/Kg	09/06/12	DD	SW 8270
Pyrene	39000	510	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	730	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	102		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	91		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	87		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	86		%	09/06/12	DD	40 - 140 %
% Phenol-d5	85		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	82		%	09/06/12	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.
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 semivolatle analysis.
 - * For Pesticides, due to matrix interference from non target compounds in the sample an elevated RL was reported.
- All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/04/12 0:00
 09/05/12 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64412

Project ID: 403 GREENWICH STREET
 Client ID: B1 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	09/06/12	LK	SW6010
Aluminum	8970	57	mg/Kg	09/06/12	LK	SW6010
Arsenic	1.8	0.8	mg/Kg	09/06/12	LK	SW6010
Barium	60.3	0.38	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.58	0.30	mg/Kg	09/06/12	LK	SW6010
Calcium	949	5.7	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	09/06/12	LK	SW6010
Cobalt	6.93	0.38	mg/Kg	09/06/12	LK	SW6010
Chromium	27.6	0.38	mg/Kg	09/06/12	LK	SW6010
Copper	10.9	0.38	mg/kg	09/06/12	LK	SW6010
Iron	16000	57	mg/Kg	09/06/12	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	09/06/12	RS	SW-7471
Potassium	1790	5.7	mg/Kg	09/06/12	LK	SW6010
Magnesium	2920	5.7	mg/Kg	09/06/12	LK	SW6010
Manganese	227	3.8	mg/Kg	09/06/12	LK	SW6010
Sodium	164	5.7	mg/Kg	09/06/12	LK	SW6010
Nickel	29.4	0.38	mg/Kg	09/06/12	LK	SW6010
Lead	9.63	0.38	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.8	3.8	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	09/06/12	LK	SW6010
Vanadium	22.1	0.38	mg/Kg	09/06/12	LK	SW6010
Zinc	24.0	0.38	mg/Kg	09/06/12	LK	SW6010
Percent Solid	84		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	390	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	390	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	96		%	09/06/12	AW	30 - 150 %
% TCMX	78		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	38	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	38	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	38	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	19	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	19	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.9	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	19	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	59	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	19	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.9	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	19	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	38	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	38	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	38	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	38	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	38	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.9	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	12	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	19	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	190	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	190	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	107		%	09/06/12	MH	30 - 150 %
% TCMX	86		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	30	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	12	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	103		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	84		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	102		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	99		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	630	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	ND	280	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	630	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	630	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	630	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	09/06/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	280	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Anthracene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	390	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	470	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	390	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Carbazole	ND	590	ug/Kg	09/06/12	DD	SW 8270
Chrysene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	ND	280	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	280	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Fluorene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	280	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	280	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	280	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	390	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	390	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	390	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	390	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	280	ug/Kg	09/06/12	DD	SW 8270
Pyrene	ND	280	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	390	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	81		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	79		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	82		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	77		%	09/06/12	DD	40 - 140 %
% Phenol-d5	80		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	65		%	09/06/12	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.

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

Comments:

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

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

September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/04/12 0:00
 09/05/12 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64413

Project ID: 403 GREENWICH STREET
 Client ID: B2 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	09/06/12	LK	SW6010
Aluminum	5870	53	mg/Kg	09/06/12	LK	SW6010
Arsenic	2.0	0.7	mg/Kg	09/06/12	LK	SW6010
Barium	64.3	0.35	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.37	0.28	mg/Kg	09/06/12	LK	SW6010
Calcium	6080	5.3	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	09/06/12	LK	SW6010
Cobalt	5.21	0.35	mg/Kg	09/06/12	LK	SW6010
Chromium	15.1	0.35	mg/Kg	09/06/12	LK	SW6010
Copper	15.3	0.35	mg/kg	09/06/12	LK	SW6010
Iron	11200	53	mg/Kg	09/06/12	LK	SW6010
Mercury	0.13	0.07	mg/Kg	09/06/12	RS	SW-7471
Potassium	1450	5.3	mg/Kg	09/06/12	LK	SW6010
Magnesium	3730	5.3	mg/Kg	09/06/12	LK	SW6010
Manganese	239	3.5	mg/Kg	09/06/12	LK	SW6010
Sodium	268	5.3	mg/Kg	09/06/12	LK	SW6010
Nickel	19.2	0.35	mg/Kg	09/06/12	LK	SW6010
Lead	81.8	0.35	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.5	3.5	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	09/06/12	LK	SW6010
Vanadium	14.7	0.35	mg/Kg	09/06/12	LK	SW6010
Zinc	46.9	0.35	mg/Kg	09/06/12	LK	SW6010
Percent Solid	90		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	97		%	09/06/12	AW	30 - 150 %
% TCMX	84		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	18	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	55	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	85		%	09/06/12	MH	30 - 150 %
% TCMX	90		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	104		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	88		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	110		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	100		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	09/06/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	370	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	440	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	480	260	ug/Kg	09/06/12	DD	SW 8270
Carbazole	ND	550	ug/Kg	09/06/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	440	260	ug/Kg	09/06/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	300	260	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
Pyrene	410	260	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	80		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	82		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	81		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	81		%	09/06/12	DD	40 - 140 %
% Phenol-d5	80		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	95		%	09/06/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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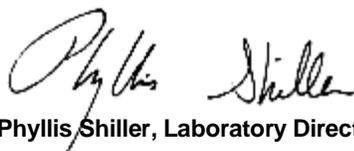
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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

Comments:

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

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

September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date

09/04/12
 09/05/12

Time

0:00
 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64414

Project ID: 403 GREENWICH STREET
 Client ID: B2 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	09/06/12	LK	SW6010
Aluminum	5560	58	mg/Kg	09/06/12	LK	SW6010
Arsenic	0.9	0.8	mg/Kg	09/06/12	LK	SW6010
Barium	45.0	0.38	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.40	0.31	mg/Kg	09/06/12	LK	SW6010
Calcium	1250	5.8	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	09/06/12	LK	SW6010
Cobalt	5.24	0.38	mg/Kg	09/06/12	LK	SW6010
Chromium	14.9	0.38	mg/Kg	09/06/12	LK	SW6010
Copper	8.55	0.38	mg/kg	09/06/12	LK	SW6010
Iron	11300	5.8	mg/Kg	09/06/12	LK	SW6010
Mercury	< 0.06	0.06	mg/Kg	09/06/12	RS	SW-7471
Potassium	1480	5.8	mg/Kg	09/06/12	LK	SW6010
Magnesium	2460	5.8	mg/Kg	09/06/12	LK	SW6010
Manganese	202	3.8	mg/Kg	09/06/12	LK	SW6010
Sodium	156	5.8	mg/Kg	09/06/12	LK	SW6010
Nickel	20.6	0.38	mg/Kg	09/06/12	LK	SW6010
Lead	10.8	0.38	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.8	3.8	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	09/06/12	LK	SW6010
Vanadium	14.9	0.38	mg/Kg	09/06/12	LK	SW6010
Zinc	18.4	0.38	mg/Kg	09/06/12	LK	SW6010
Percent Solid	88		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	53		%	09/06/12	AW	30 - 150 %
% TCMX	51		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	18	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	55	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	44		%	09/06/12	MH	30 - 150 %
% TCMX	50		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	09/06/12	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260 1
4-Chlorotoluene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	09/06/12	H/J	SW8260
Acetone	ND	28	ug/Kg	09/06/12	H/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/06/12	H/J	SW8260
Benzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260 1
Dibromochloromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260 1P
Isopropylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	09/06/12	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/06/12	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/06/12	H/J	SW8260
Toluene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/06/12	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	09/06/12	H/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	09/06/12	H/J	70 - 130 %
% Bromofluorobenzene	91		%	09/06/12	H/J	70 - 130 %
% Dibromofluoromethane	98		%	09/06/12	H/J	70 - 130 %
% Toluene-d8	97		%	09/06/12	H/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	590	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	09/06/12	DD	SW 8270

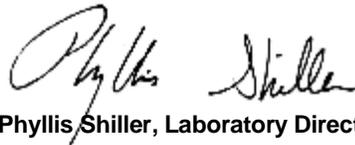
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	370	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	450	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	1100	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Carbazole	ND	560	ug/Kg	09/06/12	DD	SW 8270
Chrysene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	ND	260	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	260	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Fluorene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	260	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	260	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	260	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	370	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	260	ug/Kg	09/06/12	DD	SW 8270
Pyrene	ND	260	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	370	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	71		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	70		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	67		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	71		%	09/06/12	DD	40 - 140 %
% Phenol-d5	71		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	83		%	09/06/12	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.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/04/12 0:00
 09/05/12 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64415

Project ID: 403 GREENWICH STREET
 Client ID: B3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	09/06/12	LK	SW6010
Aluminum	5970	50	mg/Kg	09/06/12	LK	SW6010
Arsenic	2.5	0.7	mg/Kg	09/06/12	LK	SW6010
Barium	137	0.33	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.44	0.27	mg/Kg	09/06/12	LK	SW6010
Calcium	16000	50	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.33	0.33	mg/Kg	09/06/12	LK	SW6010
Cobalt	6.11	0.33	mg/Kg	09/06/12	LK	SW6010
Chromium	17.5	0.33	mg/Kg	09/06/12	LK	SW6010
Copper	91.9	0.33	mg/kg	09/06/12	LK	SW6010
Iron	14000	50	mg/Kg	09/06/12	LK	SW6010
Mercury	0.22	0.08	mg/Kg	09/06/12	RS	SW-7471
Potassium	1900	5.0	mg/Kg	09/06/12	LK	SW6010
Magnesium	3230	5.0	mg/Kg	09/06/12	LK	SW6010
Manganese	370	3.3	mg/Kg	09/06/12	LK	SW6010
Sodium	349	5.0	mg/Kg	09/06/12	LK	SW6010
Nickel	24.6	0.33	mg/Kg	09/06/12	LK	SW6010
Lead	194	3.3	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.3	3.3	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.3	1.3	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.5	0.5	mg/Kg	09/06/12	LK	SW6010
Vanadium	15.9	0.33	mg/Kg	09/06/12	LK	SW6010
Zinc	176	3.3	mg/Kg	09/06/12	LK	SW6010
Percent Solid	95		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	350	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	350	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	96		%	09/06/12	AW	30 - 150 %
% TCMX	86		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	34	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	34	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	17	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.2	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	52	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.2	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.2	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	10	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	108		%	09/06/12	MH	30 - 150 %
% TCMX	108		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	78	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	5.3	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	107		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	90		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	106		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	98		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	990	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	340	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	550	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	990	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	240	ug/Kg	09/06/12	DD	SW 8270

Client ID: B3 0-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	240	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	990	ug/Kg	09/06/12	DD	SW 8270
Anthracene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	340	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	750	240	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	410	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	760	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	870	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	650	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	340	240	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	990	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	340	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Carbazole	ND	510	ug/Kg	09/06/12	DD	SW 8270
Chrysene	820	240	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	ND	240	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	910	240	ug/Kg	09/06/12	DD	SW 8270
Fluorene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	240	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	510	240	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	240	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	340	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	340	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	340	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	340	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	360	240	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
Pyrene	1300	240	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	340	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	67		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	76		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	70		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	76		%	09/06/12	DD	40 - 140 %
% Phenol-d5	73		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	90		%	09/06/12	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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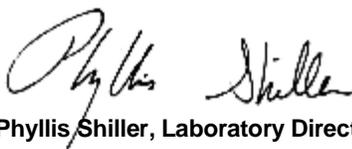
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1P = This parameter is pending certification by NY NELAC for this matrix.
1O = This parameter is not certified by NY NELAC for this matrix.

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

Comments:

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

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

September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date

09/04/12
 09/05/12

Time

0:00
 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64416

Project ID: 403 GREENWICH STREET
 Client ID: B3 12-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	09/06/12	LK	SW6010
Aluminum	5390	50	mg/Kg	09/06/12	LK	SW6010
Arsenic	1.5	0.7	mg/Kg	09/06/12	LK	SW6010
Barium	58.1	0.33	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.37	0.27	mg/Kg	09/06/12	LK	SW6010
Calcium	8080	5.0	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.33	0.33	mg/Kg	09/06/12	LK	SW6010
Cobalt	4.94	0.33	mg/Kg	09/06/12	LK	SW6010
Chromium	16.1	0.33	mg/Kg	09/06/12	LK	SW6010
Copper	30.6	0.33	mg/kg	09/06/12	LK	SW6010
Iron	11800	50	mg/Kg	09/06/12	LK	SW6010
Mercury	0.11	0.08	mg/Kg	09/06/12	RS	SW-7471
Potassium	1520	5.0	mg/Kg	09/06/12	LK	SW6010
Magnesium	2420	5.0	mg/Kg	09/06/12	LK	SW6010
Manganese	229	3.3	mg/Kg	09/06/12	LK	SW6010
Sodium	158	5.0	mg/Kg	09/06/12	LK	SW6010
Nickel	20.4	0.33	mg/Kg	09/06/12	LK	SW6010
Lead	24.6	0.33	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.3	3.3	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.3	1.3	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.5	0.5	mg/Kg	09/06/12	LK	SW6010
Vanadium	14.7	0.33	mg/Kg	09/06/12	LK	SW6010
Zinc	32.2	0.33	mg/Kg	09/06/12	LK	SW6010
Percent Solid	93		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	360	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	360	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	106		%	09/06/12	AW	30 - 150 %
% TCMX	92		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	34	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	34	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	34	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	17	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.3	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	53	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	17	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.3	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	17	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	34	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	34	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	34	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.3	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	17	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	170	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	170	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	125		%	09/06/12	MH	30 - 150 %
% TCMX	114		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	27	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	106		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	89		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	110		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	99		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	560	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	560	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	560	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	560	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	240	ug/Kg	09/06/12	DD	SW 8270

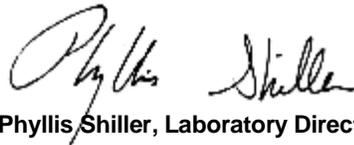
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	240	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Anthracene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	350	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	420	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	350	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Carbazole	ND	520	ug/Kg	09/06/12	DD	SW 8270
Chrysene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	ND	240	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	240	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Fluorene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	240	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	240	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	240	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	350	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	350	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	350	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	350	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	240	ug/Kg	09/06/12	DD	SW 8270
Pyrene	ND	240	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	350	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	76		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	75		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	73		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	74		%	09/06/12	DD	40 - 140 %
% Phenol-d5	75		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	65		%	09/06/12	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.
RL/PQL=Reporting/Pratical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 12, 2012

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

Sample Information

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

Custody Information

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

Date
 09/04/12 0:00
 09/05/12 16:59

Laboratory Data

SDG ID: GBC64411
 Phoenix ID: BC64417

Project ID: 403 GREENWICH STREET
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	09/06/12	LK	SW6010
Aluminum	5740	55	mg/Kg	09/06/12	LK	SW6010
Arsenic	2.7	0.7	mg/Kg	09/06/12	LK	SW6010
Barium	136	0.37	mg/Kg	09/06/12	LK	SW6010
Beryllium	0.34	0.29	mg/Kg	09/06/12	LK	SW6010
Calcium	17600	55	mg/Kg	09/06/12	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	09/06/12	LK	SW6010
Cobalt	5.25	0.37	mg/Kg	09/06/12	LK	SW6010
Chromium	25.8	0.37	mg/Kg	09/06/12	LK	SW6010
Copper	29.3	0.37	mg/kg	09/06/12	LK	SW6010
Iron	14900	55	mg/Kg	09/06/12	LK	SW6010
Mercury	0.18	0.06	mg/Kg	09/06/12	RS	SW-7471
Potassium	1470	5.5	mg/Kg	09/06/12	LK	SW6010
Magnesium	4180	5.5	mg/Kg	09/06/12	LK	SW6010
Manganese	282	3.7	mg/Kg	09/06/12	LK	SW6010
Sodium	526	5.5	mg/Kg	09/06/12	LK	SW6010
Nickel	19.3	0.37	mg/Kg	09/06/12	LK	SW6010
Lead	419	3.7	mg/Kg	09/06/12	LK	SW6010
Antimony	< 3.7	3.7	mg/Kg	09/06/12	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	09/06/12	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	09/06/12	LK	SW6010
Vanadium	14.0	0.37	mg/Kg	09/06/12	LK	SW6010
Zinc	120	0.37	mg/Kg	09/06/12	LK	SW6010
Percent Solid	90		%	09/05/12	JL	E160.3
Soil Extraction for PCB	Completed			09/05/12	BB	SW3545
Soil Extraction for Pesticide	Completed			09/05/12	BB/F	SW3545
Soil Extraction for SVOA	Completed			09/05/12	BJ/F	SW3545
Mercury Digestion	Completed			09/06/12	X/X	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Total Metals Digest	Completed			09/05/12	AG	SW846 - 3050
<u>Polychlorinated Biphenyls</u>						
PCB-1016	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1221	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1232	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1242	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1248	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1254	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1260	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1262	ND	370	ug/Kg	09/06/12	AW	SW 8082
PCB-1268	ND	370	ug/Kg	09/06/12	AW	SW 8082
<u>QA/QC Surrogates</u>						
% DCBP	84		%	09/06/12	AW	30 - 150 %
% TCMX	70		%	09/06/12	AW	30 - 150 %
<u>Pesticides</u>						
4,4' -DDD	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDE	ND	35	ug/Kg	09/06/12	MH	SW8081
4,4' -DDT	ND	35	ug/Kg	09/06/12	MH	SW8081
a-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Alachlor	ND	18	ug/Kg	09/06/12	MH	SW8081
Aldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
b-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Chlordane	ND	55	ug/Kg	09/06/12	MH	SW8081
d-BHC	ND	18	ug/Kg	09/06/12	MH	SW8081
Dieldrin	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Endosulfan I	ND	18	ug/Kg	09/06/12	MH	SW8081
Endosulfan II	ND	35	ug/Kg	09/06/12	MH	SW8081
Endosulfan sulfate	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin aldehyde	ND	35	ug/Kg	09/06/12	MH	SW8081
Endrin ketone	ND	35	ug/Kg	09/06/12	MH	SW8081
g-BHC	ND	5.5	ug/Kg	09/06/12	MH	SW8081
Heptachlor	ND	11	ug/Kg	09/06/12	MH	SW8081
Heptachlor epoxide	ND	18	ug/Kg	09/06/12	MH	SW8081
Methoxychlor	ND	180	ug/Kg	09/06/12	MH	SW8081
Toxaphene	ND	180	ug/Kg	09/06/12	MH	SW8081
<u>QA/QC Surrogates</u>						
% DCBP	116		%	09/06/12	MH	30 - 150 %
% TCMX	112		%	09/06/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
1,2-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Acetone	ND	81	ug/Kg	09/07/12	R/J	SW8260
Acrylonitrile	ND	11	ug/Kg	09/07/12	R/J	SW8260
Benzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1
Dibromochloromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260 1P
Isopropylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	09/07/12	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Naphthalene	7.3	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Styrene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	09/07/12	R/J	SW8260
Toluene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	09/07/12	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	09/07/12	R/J	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	102		%	09/07/12	R/J	70 - 130 %
% Bromofluorobenzene	89		%	09/07/12	R/J	70 - 130 %
% Dibromofluoromethane	103		%	09/07/12	R/J	70 - 130 %
% Toluene-d8	98		%	09/07/12	R/J	70 - 130 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	09/06/12	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	09/06/12	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	09/06/12	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	09/06/12	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
2-Methylnaphthalene	350	250	ug/Kg	09/06/12	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	09/06/12	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	09/06/12	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	09/06/12	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	09/06/12	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	09/06/12	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	09/06/12	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	09/06/12	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	09/06/12	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	09/06/12	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	09/06/12	DD	SW 8270
4-Nitrophenol	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Acenaphthene	530	250	ug/Kg	09/06/12	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	09/06/12	DD	SW 8270

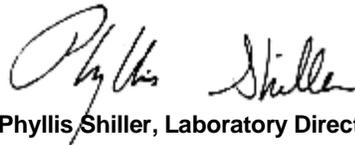
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	09/06/12	DD	SW 8270
Aniline	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Anthracene	1200	250	ug/Kg	09/06/12	DD	SW 8270
Azobenzene	ND	360	ug/Kg	09/06/12	DD	SW 8270
Benz(a)anthracene	2300	250	ug/Kg	09/06/12	DD	SW 8270
Benzidine	ND	430	ug/Kg	09/06/12	DD	SW 8270
Benzo(a)pyrene	1900	250	ug/Kg	09/06/12	DD	SW 8270
Benzo(b)fluoranthene	2200	250	ug/Kg	09/06/12	DD	SW 8270
Benzo(ghi)perylene	1400	250	ug/Kg	09/06/12	DD	SW 8270
Benzo(k)fluoranthene	770	250	ug/Kg	09/06/12	DD	SW 8270
Benzoic acid	ND	1000	ug/Kg	09/06/12	DD	SW 8270
Benzyl butyl phthalate	ND	250	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroethyl)ether	ND	360	ug/Kg	09/06/12	DD	SW 8270
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	09/06/12	DD	SW 8270
Bis(2-ethylhexyl)phthalate	2800	250	ug/Kg	09/06/12	DD	SW 8270
Carbazole	740	540	ug/Kg	09/06/12	DD	SW 8270
Chrysene	2400	250	ug/Kg	09/06/12	DD	SW 8270
Dibenz(a,h)anthracene	370	250	ug/Kg	09/06/12	DD	SW 8270
Dibenzofuran	430	250	ug/Kg	09/06/12	DD	SW 8270
Diethyl phthalate	ND	250	ug/Kg	09/06/12	DD	SW 8270
Dimethylphthalate	ND	250	ug/Kg	09/06/12	DD	SW 8270
Di-n-butylphthalate	590	250	ug/Kg	09/06/12	DD	SW 8270
Di-n-octylphthalate	ND	250	ug/Kg	09/06/12	DD	SW 8270
Fluoranthene	5500	250	ug/Kg	09/06/12	DD	SW 8270
Fluorene	480	250	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
Hexachlorobutadiene	ND	250	ug/Kg	09/06/12	DD	SW 8270
Hexachlorocyclopentadiene	ND	250	ug/Kg	09/06/12	DD	SW 8270
Hexachloroethane	ND	250	ug/Kg	09/06/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1200	250	ug/Kg	09/06/12	DD	SW 8270
Isophorone	ND	250	ug/Kg	09/06/12	DD	SW 8270
Naphthalene	710	250	ug/Kg	09/06/12	DD	SW 8270
Nitrobenzene	ND	250	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodimethylamine	ND	360	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	09/06/12	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	09/06/12	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	09/06/12	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	09/06/12	DD	SW 8270
Phenanthrene	5300	250	ug/Kg	09/06/12	DD	SW 8270
Phenol	ND	250	ug/Kg	09/06/12	DD	SW 8270
Pyrene	5200	250	ug/Kg	09/06/12	DD	SW 8270
Pyridine	ND	360	ug/Kg	09/06/12	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	80		%	09/06/12	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	09/06/12	DD	40 - 140 %
% 2-Fluorophenol	83		%	09/06/12	DD	30 - 130 %
% Nitrobenzene-d5	83		%	09/06/12	DD	40 - 140 %
% Phenol-d5	82		%	09/06/12	DD	30 - 130 %
% Terphenyl-d14	103		%	09/06/12	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.
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

September 12, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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QA/QC Report

September 12, 2012

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 208644, QC Sample No: BC63299 (BC64411, BC64412)													
Mercury - Soil	BRL	0.38	0.42	NC	100	101	1.0	74.6	110	38.4	70 - 130	30	m,r
QA/QC Batch 208586, QC Sample No: BC63567 (BC64411, BC64412, BC64413, BC64414, BC64415, BC64416, BC64417)													
<u>ICP Metals - Soil</u>													
Aluminum	BRL	6660	7910	17.2	105	98.3	6.6	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.7	<3.7	NC	91.0	82.6	9.7	89.9	87.9	2.2	75 - 125	30	
Arsenic	BRL	6.1	4.12	38.7	109	99.0	9.6	101	98.2	2.8	75 - 125	30	r
Barium	BRL	152	146	4.00	107	97.3	9.5	110	>130	NC	75 - 125	30	m
Beryllium	BRL	0.43	0.45	NC	108	99.1	8.6	104	100	3.9	75 - 125	30	
Cadmium	BRL	<0.37	<0.37	NC	107	94.0	12.9	102	97.4	4.6	75 - 125	30	
Calcium	BRL	6490	6020	7.50	101	95.7	5.4	NC	NC	NC	75 - 125	30	
Chromium	BRL	14.9	15.7	5.20	110	97.3	12.3	122	124	1.6	75 - 125	30	
Cobalt	BRL	5.66	6.18	8.80	115	101	13.0	106	103	2.9	75 - 125	30	
Copper	BRL	32.0	32.1	0.30	114	100	13.1	103	109	5.7	75 - 125	30	
Iron	BRL	13700	14300	4.30	112	106	5.5	NC	NC	NC	75 - 125	30	
Lead	BRL	143	111	25.2	111	101	9.4	80.4	98.1	19.8	75 - 125	30	
Magnesium	BRL	3430	3490	1.70	109	99.4	9.2	NC	NC	NC	75 - 125	30	
Manganese	BRL	401	377	6.20	111	102	8.5	NC	>130	NC	75 - 125	30	m
Nickel	BRL	9.65	11.2	14.9	114	100	13.1	103	101	2.0	75 - 125	30	
Potassium	BRL	1130	1240	9.30	106	95.1	10.8	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.5	<1.5	NC	95.7	87.9	8.5	92.3	89.6	3.0	75 - 125	30	
Silver	BRL	<0.37	<0.37	NC	106	94.8	11.2	104	101	2.9	75 - 125	30	
Sodium	BRL	262	253	3.50	112	96.2	15.2	>130	>130	NC	75 - 125	30	m
Vanadium	BRL	25.9	30.1	15.0	109	101	7.6	102	102	0.0	75 - 125	30	
Zinc	BRL	65.8	65.6	0.30	109	96.9	11.8	90.0	117	26.1	75 - 125	30	
QA/QC Batch 208645, QC Sample No: BC63900 (BC64413, BC64414, BC64415, BC64416, BC64417)													
Mercury - Soil	BRL	<0.08	<0.07	NC	110	102	7.5	103	96.5	6.5	70 - 130	30	

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 12, 2012

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208898, QC Sample No: BC63551 (BC64411, BC64415, BC64417)									
Volatiles - Solid									
1,1,1,2-Tetrachloroethane	ND	101	104	2.9	99	116	15.8	70 - 130	30
1,1,1-Trichloroethane	ND	103	103	0.0	103	115	11.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	98	106	7.8	99	125	23.2	70 - 130	30
1,1,2-Trichloroethane	ND	97	108	10.7	96	122	23.9	70 - 130	30
1,1-Dichloroethane	ND	101	105	3.9	102	115	12.0	70 - 130	30
1,1-Dichloroethene	ND	92	101	9.3	96	114	17.1	70 - 130	30
1,1-Dichloropropene	ND	109	105	3.7	111	121	8.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	110	106	3.7	122	129	5.6	70 - 130	30
1,2,3-Trichloropropane	ND	86	115	28.9	85	127	39.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	116	106	9.0	128	134	4.6	70 - 130	30
1,2,4-Trimethylbenzene	ND	117	112	4.4	116	124	6.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	99	108	8.7	99	127	24.8	70 - 130	30
1,2-Dibromoethane	ND	94	108	13.9	100	126	23.0	70 - 130	30
1,2-Dichlorobenzene	ND	104	106	1.9	107	121	12.3	70 - 130	30
1,2-Dichloroethane	ND	93	102	9.2	95	116	19.9	70 - 130	30
1,2-Dichloropropane	ND	101	108	6.7	103	119	14.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	115	108	6.3	114	124	8.4	70 - 130	30
1,3-Dichlorobenzene	ND	110	107	2.8	113	124	9.3	70 - 130	30
1,3-Dichloropropane	ND	98	109	10.6	100	124	21.4	70 - 130	30
1,4-Dichlorobenzene	ND	106	104	1.9	110	123	11.2	70 - 130	30
2,2-Dichloropropane	ND	108	108	0.0	103	115	11.0	70 - 130	30
2-Chlorotoluene	ND	112	109	2.7	110	120	8.7	70 - 130	30
2-Hexanone	ND	109	123	12.1	79	102	25.4	70 - 130	30
2-Isopropyltoluene	ND	114	106	7.3	115	123	6.7	70 - 130	30
4-Chlorotoluene	ND	109	105	3.7	112	123	9.4	70 - 130	30
4-Methyl-2-pentanone	ND	95	112	16.4	99	130	27.1	70 - 130	30
Acetone	ND	100	127	23.8	48	78	47.6	70 - 130	30
Acrylonitrile	ND	88	106	18.6	99	133	29.3	70 - 130	30
Benzene	ND	104	106	1.9	104	117	11.8	70 - 130	30
Bromobenzene	ND	106	106	0.0	103	118	13.6	70 - 130	30
Bromochloromethane	ND	95	105	10.0	99	120	19.2	70 - 130	30
Bromodichloromethane	ND	98	106	7.8	99	116	15.8	70 - 130	30
Bromoform	ND	96	107	10.8	95	117	20.8	70 - 130	30
Bromomethane	ND	88	87	1.1	78	75	3.9	70 - 130	30
Carbon Disulfide	ND	90	101	11.5	94	112	17.5	70 - 130	30
Carbon tetrachloride	ND	104	102	1.9	101	110	8.5	70 - 130	30
Chlorobenzene	ND	103	103	0.0	105	118	11.7	70 - 130	30
Chloroethane	ND	89	100	11.6	42	44	4.7	70 - 130	30
Chloroform	ND	98	103	5.0	101	117	14.7	70 - 130	30
Chloromethane	ND	97	97	0.0	105	113	7.3	70 - 130	30
cis-1,2-Dichloroethene	ND	106	109	2.8	108	120	10.5	70 - 130	30

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	105	112	6.5	105	124	16.6	70 - 130	30	
Dibromochloromethane	ND	99	108	8.7	99	117	16.7	70 - 130	30	
Dibromomethane	ND	98	107	8.8	100	119	17.4	70 - 130	30	
Dichlorodifluoromethane	ND	94	90	4.3	105	115	9.1	70 - 130	30	
Ethylbenzene	ND	106	103	2.9	111	122	9.4	70 - 130	30	
Hexachlorobutadiene	ND	109	92	16.9	124	120	3.3	70 - 130	30	
Isopropylbenzene	ND	119	112	6.1	112	123	9.4	70 - 130	30	
m&p-Xylene	ND	109	105	3.7	114	124	8.4	70 - 130	30	
Methyl ethyl ketone	ND	104	123	16.7	73	100	31.2	70 - 130	30	r
Methyl t-butyl ether (MTBE)	ND	95	106	10.9	98	120	20.2	70 - 130	30	
Methylene chloride	ND	64	77	18.4	65	88	30.1	70 - 130	30	l,m
Naphthalene	ND	123	117	5.0	131	136	3.7	70 - 130	30	m
n-Butylbenzene	ND	119	105	12.5	125	127	1.6	70 - 130	30	
n-Propylbenzene	ND	119	111	7.0	114	122	6.8	70 - 130	30	
o-Xylene	ND	108	106	1.9	113	125	10.1	70 - 130	30	
p-Isopropyltoluene	ND	122	111	9.4	121	128	5.6	70 - 130	30	
sec-Butylbenzene	ND	115	106	8.1	116	124	6.7	70 - 130	30	
Styrene	ND	102	105	2.9	112	125	11.0	70 - 130	30	
tert-Butylbenzene	ND	118	110	7.0	112	122	8.5	70 - 130	30	
Tetrachloroethene	ND	107	101	5.8	110	119	7.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	93	110	16.7	101	135	28.8	70 - 130	30	m
Toluene	ND	103	104	1.0	106	119	11.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	101	103	2.0	103	116	11.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	100	109	8.6	101	123	19.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	109	114	4.5	105	127	19.0	70 - 130	30	
Trichloroethene	ND	104	105	1.0	105	116	10.0	70 - 130	30	
Trichlorofluoromethane	ND	96	102	6.1	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	93	97	4.2	98	116	16.8	70 - 130	30	
Vinyl chloride	ND	94	98	4.2	106	121	13.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	105	98	99	1.0	97	101	4.0	70 - 130	30	
% Bromofluorobenzene	96	97	99	2.0	99	102	3.0	70 - 130	30	
% Dibromofluoromethane	100	95	100	5.1	93	99	6.3	70 - 130	30	
% Toluene-d8	101	100	102	2.0	100	102	2.0	70 - 130	30	

QA/QC Batch 208504, QC Sample No: BC63567 (BC64411, BC64412, BC64413, BC64414, BC64415, BC64416, BC64417)

Pesticides - Solid

4,4' -DDD	ND	54	55	1.8	78	96	20.7	40 - 140	30	
4,4' -DDE	ND	72	76	5.4	81	92	12.7	40 - 140	30	
4,4' -DDT	ND	68	69	1.5	86	114	28.0	40 - 140	30	
a-BHC	ND	79	84	6.1	83	92	10.3	40 - 140	30	
a-Chlordane	ND	77	84	8.7	82	88	7.1	40 - 140	30	
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
Aldrin	ND	78	83	6.2	82	91	10.4	40 - 140	30	
b-BHC	ND	81	86	6.0	85	95	11.1	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
d-BHC	ND	74	79	6.5	80	91	12.9	40 - 140	30	
Dieldrin	ND	77	84	8.7	82	89	8.2	40 - 140	30	
Endosulfan I	ND	78	85	8.6	84	91	8.0	40 - 140	30	
Endosulfan II	ND	70	76	8.2	81	89	9.4	40 - 140	30	
Endosulfan sulfate	ND	69	74	7.0	82	91	10.4	40 - 140	30	
Endrin	ND	68	73	7.1	82	92	11.5	40 - 140	30	
Endrin aldehyde	ND	86	96	11.0	109	121	10.4	40 - 140	30	
Endrin ketone	ND	76	81	6.4	86	96	11.0	40 - 140	30	

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-BHC	ND	78	90	14.3	86	108	22.7	40 - 140	30
g-Chlordane	ND	77	83	7.5	81	88	8.3	40 - 140	30
Heptachlor	ND	85	87	2.3	88	100	12.8	40 - 140	30
Heptachlor epoxide	ND	73	80	9.2	78	85	8.6	40 - 140	30
Methoxychlor	ND	51	67	27.1	86	105	19.9	40 - 140	30
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
% DCBP	68	71	73	2.8	77	83	7.5	30 - 150	30
% TCMX	81	85	90	5.7	85	92	7.9	30 - 150	30

QA/QC Batch 208581, QC Sample No: BC64411 (BC64411, BC64412, BC64413, BC64414, BC64415, BC64416, BC64417)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	74	79	6.5	79	74	6.5	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	79	87	9.6	94	88	6.6	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	110	107	97	9.8	100	86	15.1	30 - 150	30
% TCMX (Surrogate Rec)	74	92	80	14.0	80	76	5.1	30 - 150	30

QA/QC Batch 208592, QC Sample No: BC64411 (BC64411, BC64412, BC64413, BC64414, BC64415, BC64416, BC64417)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	87	82	5.9	88	88	0.0	30 - 130	30
1,2,4-Trichlorobenzene	ND	86	79	8.5	88	88	0.0	30 - 130	30
1,2-Dichlorobenzene	ND	80	77	3.8	85	83	2.4	30 - 130	30
1,3-Dichlorobenzene	ND	78	74	5.3	82	81	1.2	30 - 130	30
1,4-Dichlorobenzene	ND	80	76	5.1	85	83	2.4	30 - 130	30
2,4,5-Trichlorophenol	ND	87	83	4.7	89	90	1.1	30 - 130	30
2,4,6-Trichlorophenol	ND	88	83	5.8	90	89	1.1	30 - 130	30
2,4-Dichlorophenol	ND	85	79	7.3	86	87	1.2	30 - 130	30
2,4-Dimethylphenol	ND	59	55	7.0	70	69	1.4	30 - 130	30
2,4-Dinitrophenol	ND	<5	<5	NC	<5	<5	NC	30 - 130	30
2,4-Dinitrotoluene	ND	83	79	4.9	87	80	8.4	30 - 130	30
2,6-Dinitrotoluene	ND	86	81	6.0	86	83	3.6	30 - 130	30
2-Chloronaphthalene	ND	90	83	8.1	92	90	2.2	30 - 130	30
2-Chlorophenol	ND	81	78	3.8	83	85	2.4	30 - 130	30
2-Methylnaphthalene	ND	81	75	7.7	84	84	0.0	30 - 130	30
2-Methylphenol (o-cresol)	ND	80	76	5.1	89	84	5.8	30 - 130	30
2-Nitroaniline	ND	112	104	7.4	93	93	0.0	30 - 130	30
2-Nitrophenol	ND	79	72	9.3	85	81	4.8	30 - 130	30
3&4-Methylphenol (m&p-cresol)	ND	84	79	6.1	90	90	0.0	30 - 130	30
3,3'-Dichlorobenzidine	ND	128	126	1.6	69	64	7.5	30 - 130	30
3-Nitroaniline	ND	96	94	2.1	77	83	7.5	30 - 130	30
4,6-Dinitro-2-methylphenol	ND	36	25	36.1	6.8	<5	NC	30 - 130	30
4-Bromophenyl phenyl ether	ND	91	86	5.6	87	91	4.5	30 - 130	30
4-Chloro-3-methylphenol	ND	85	82	3.6	87	90	3.4	30 - 130	30
4-Chloroaniline	ND	97	90	7.5	68	71	4.3	30 - 130	30
4-Chlorophenyl phenyl ether	ND	88	86	2.3	93	93	0.0	30 - 130	30
4-Nitroaniline	ND	81	78	3.8	83	85	2.4	30 - 130	30
4-Nitrophenol	ND	68	64	6.1	44	40	9.5	30 - 130	30
Acenaphthene	ND	87	82	5.9	77	78	1.3	30 - 130	30

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acenaphthylene	ND	86	80	7.2	88	99	11.8	30 - 130	30
Acetophenone	ND	82	78	5.0	86	86	0.0	30 - 130	30
Aniline	ND	101	97	4.0	76	71	6.8	30 - 130	30
Anthracene	ND	90	83	8.1	66	NC	NC	30 - 130	30
Azobenzene	ND	82	77	6.3	84	80	4.9	30 - 130	30
Benz(a)anthracene	ND	91	84	8.0	NC	NC	NC	30 - 130	30
Benzidine	ND	43	38	12.3	<5	<5	NC	30 - 130	30 m
Benzo(a)pyrene	ND	86	82	4.8	NC	NC	NC	30 - 130	30
Benzo(b)fluoranthene	ND	91	86	5.6	NC	NC	NC	30 - 130	30
Benzo(ghi)perylene	ND	99	95	4.1	41	NC	NC	30 - 130	30
Benzo(k)fluoranthene	ND	99	91	8.4	30	94	103.2	30 - 130	30 r
Benzyl butyl phthalate	ND	92	85	7.9	90	82	9.3	30 - 130	30
Bis(2-chloroethoxy)methane	ND	87	80	8.4	89	87	2.3	30 - 130	30
Bis(2-chloroethyl)ether	ND	80	76	5.1	93	96	3.2	30 - 130	30
Bis(2-chloroisopropyl)ether	ND	80	75	6.5	79	77	2.6	30 - 130	30
Bis(2-ethylhexyl)phthalate	ND	91	85	6.8	93	81	13.8	30 - 130	30
Carbazole	ND	98	88	10.8	90	95	5.4	30 - 130	30
Chrysene	ND	85	82	3.6	NC	NC	NC	30 - 130	30
Dibenz(a,h)anthracene	ND	98	94	4.2	68	46	38.6	30 - 130	30 r
Dibenzofuran	ND	85	80	6.1	81	81	0.0	30 - 130	30
Diethyl phthalate	ND	88	86	2.3	92	90	2.2	30 - 130	30
Dimethylphthalate	ND	89	85	4.6	91	89	2.2	30 - 130	30
Di-n-butylphthalate	ND	97	89	8.6	90	86	4.5	30 - 130	30
Di-n-octylphthalate	ND	82	81	1.2	91	86	5.6	30 - 130	30
Fluoranthene	ND	108	96	11.8	NC	NC	NC	30 - 130	30
Fluorene	ND	85	80	6.1	71	70	1.4	30 - 130	30
Hexachlorobenzene	ND	93	87	6.7	96	92	4.3	30 - 130	30
Hexachlorobutadiene	ND	88	82	7.1	90	89	1.1	30 - 130	30
Hexachlorocyclopentadiene	ND	87	78	10.9	<5	<5	NC	30 - 130	30 m
Hexachloroethane	ND	81	77	5.1	37	45	19.5	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	97	93	4.2	NC	NC	NC	30 - 130	30
Isophorone	ND	88	80	9.5	86	84	2.4	30 - 130	30
Naphthalene	ND	69	64	7.5	78	78	0.0	30 - 130	30
Nitrobenzene	ND	80	73	9.2	81	83	2.4	30 - 130	30
N-Nitrosodimethylamine	ND	68	65	4.5	67	69	2.9	30 - 130	30
N-Nitrosodi-n-propylamine	ND	74	72	2.7	74	73	1.4	30 - 130	30
N-Nitrosodiphenylamine	ND	89	84	5.8	95	99	4.1	30 - 130	30
Pentachloronitrobenzene	ND	94	89	5.5	89	79	11.9	30 - 130	30
Pentachlorophenol	ND	73	67	8.6	48	48	0.0	30 - 130	30
Phenanthrene	ND	91	86	5.6	NC	NC	NC	30 - 130	30
Phenol	ND	86	81	6.0	92	94	2.2	30 - 130	30
Pyrene	ND	105	94	11.1	NC	NC	NC	30 - 130	30
Pyridine	ND	67	66	1.5	67	68	1.5	30 - 130	30
% 2,4,6-Tribromophenol	80	86	83	3.6	98	95	3.1	30 - 130	30
% 2-Fluorobiphenyl	77	87	81	7.1	86	86	0.0	40 - 140	30
% 2-Fluorophenol	76	83	79	4.9	84	84	0.0	30 - 130	30
% Nitrobenzene-d5	73	81	77	5.1	85	85	0.0	40 - 140	30
% Phenol-d5	75	88	84	4.7	84	86	2.4	30 - 130	30
% Terphenyl-d14	88	108	94	13.9	77	86	11.0	40 - 140	30

QA/QC Batch 208785, QC Sample No: BC64414 (BC64414)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	103	105	1.9	98	100	2.0	70 - 130	30
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QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	89	89	0.0	88	83	5.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	98	98	0.0	88	91	3.4	70 - 130	30	
1,1,2-Trichloroethane	ND	104	104	0.0	93	94	1.1	70 - 130	30	
1,1-Dichloroethane	ND	88	95	7.7	91	87	4.5	70 - 130	30	
1,1-Dichloroethene	ND	87	88	1.1	87	85	2.3	70 - 130	30	
1,1-Dichloropropene	ND	101	103	2.0	98	96	2.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	117	120	2.5	78	70	10.8	70 - 130	30	
1,2,3-Trichloropropane	ND	91	92	1.1	83	84	1.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	114	116	1.7	72	65	10.2	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	102	105	2.9	62	69	10.7	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	95	95	0.0	83	78	6.2	70 - 130	30	
1,2-Dibromoethane	ND	102	101	1.0	93	91	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	104	106	1.9	87	85	2.3	70 - 130	30	
1,2-Dichloroethane	ND	86	87	1.2	81	79	2.5	70 - 130	30	
1,2-Dichloropropane	ND	103	105	1.9	100	96	4.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	102	104	1.9	92	91	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	106	108	1.9	86	84	2.4	70 - 130	30	
1,3-Dichloropropane	ND	101	102	1.0	94	93	1.1	70 - 130	30	
1,4-Dichlorobenzene	ND	105	107	1.9	84	83	1.2	70 - 130	30	
2,2-Dichloropropane	ND	90	91	1.1	79	73	7.9	70 - 130	30	
2-Chlorotoluene	ND	104	105	1.0	93	92	1.1	70 - 130	30	
2-Hexanone	ND	103	100	3.0	63	58	8.3	70 - 130	30	m
2-Isopropyltoluene	ND	101	103	2.0	93	91	2.2	70 - 130	30	
4-Chlorotoluene	ND	101	102	1.0	87	86	1.2	70 - 130	30	
4-Methyl-2-pentanone	ND	100	94	6.2	71	73	2.8	70 - 130	30	
Acetone	ND	80	76	5.1	46	42	9.1	70 - 130	30	m
Acrylonitrile	ND	83	90	8.1	80	77	3.8	70 - 130	30	
Benzene	ND	102	104	1.9	<40	48	NC	70 - 130	30	m
Bromobenzene	ND	109	110	0.9	79	87	9.6	70 - 130	30	
Bromochloromethane	ND	100	100	0.0	94	91	3.2	70 - 130	30	
Bromodichloromethane	ND	96	97	1.0	92	89	3.3	70 - 130	30	
Bromoform	ND	107	109	1.9	100	99	1.0	70 - 130	30	
Bromomethane	ND	88	88	0.0	93	68	31.1	70 - 130	30	m,r
Carbon Disulfide	ND	82	83	1.2	74	71	4.1	70 - 130	30	
Carbon tetrachloride	ND	88	90	2.2	95	88	7.7	70 - 130	30	
Chlorobenzene	ND	101	103	2.0	73	83	12.8	70 - 130	30	
Chloroethane	ND	82	82	0.0	87	71	20.3	70 - 130	30	
Chloroform	ND	94	94	0.0	87	85	2.3	70 - 130	30	
Chloromethane	ND	88	88	0.0	99	76	26.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	102	1.0	90	88	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	102	103	1.0	88	87	1.1	70 - 130	30	
Dibromochloromethane	ND	106	107	0.9	99	98	1.0	70 - 130	30	
Dibromomethane	ND	98	98	0.0	91	87	4.5	70 - 130	30	
Dichlorodifluoromethane	ND	65	63	3.1	91	86	5.6	70 - 130	30	l
Ethylbenzene	ND	100	102	2.0	94	93	1.1	70 - 130	30	
Hexachlorobutadiene	ND	107	109	1.9	89	85	4.6	70 - 130	30	
Isopropylbenzene	ND	102	104	1.9	100	98	2.0	70 - 130	30	
m&p-Xylene	ND	102	104	1.9	81	84	3.6	70 - 130	30	
Methyl ethyl ketone	ND	106	99	6.8	65	61	6.3	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	84	83	1.2	78	68	13.7	70 - 130	30	m
Methylene chloride	ND	81	81	0.0	72	69	4.3	70 - 130	30	m
Naphthalene	ND	109	111	1.8	82	76	7.6	70 - 130	30	
n-Butylbenzene	ND	104	106	1.9	84	82	2.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Propylbenzene	ND	99	100	1.0	96	94	2.1	70 - 130	30
o-Xylene	ND	101	102	1.0	90	90	0.0	70 - 130	30
p-Isopropyltoluene	ND	108	110	1.8	91	90	1.1	70 - 130	30
sec-Butylbenzene	ND	100	102	2.0	96	95	1.0	70 - 130	30
Styrene	ND	102	103	1.0	82	82	0.0	70 - 130	30
tert-Butylbenzene	ND	101	104	2.9	99	98	1.0	70 - 130	30
Tetrachloroethene	ND	106	109	2.8	102	100	2.0	70 - 130	30
Tetrahydrofuran (THF)	ND	88	85	3.5	74	75	1.3	70 - 130	30
Toluene	ND	103	104	1.0	49	64	26.5	70 - 130	30
trans-1,2-Dichloroethene	ND	90	91	1.1	84	82	2.4	70 - 130	30
trans-1,3-Dichloropropene	ND	99	98	1.0	84	83	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	103	103	0.0	75	76	1.3	70 - 130	30
Trichloroethene	ND	105	105	0.0	104	99	4.9	70 - 130	30
Trichlorofluoromethane	ND	83	83	0.0	81	77	5.1	70 - 130	30
Trichlorotrifluoroethane	ND	85	84	1.2	81	77	5.1	70 - 130	30
Vinyl chloride	ND	80	81	1.2	88	84	4.7	70 - 130	30
% 1,2-dichlorobenzene-d4	98	101	101	0.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	93	95	95	0.0	95	94	1.1	70 - 130	30
% Dibromofluoromethane	100	103	105	1.9	103	100	3.0	70 - 130	30
% Toluene-d8	96	99	98	1.0	98	97	1.0	70 - 130	30

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QA/QC Batch 208782, QC Sample No: BC64525 (BC64412, BC64413, BC64416)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	101	95	6.1	100	98	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	100	92	8.3	97	98	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	100	97	3.0	101	91	10.4	70 - 130	30
1,1,2-Trichloroethane	ND	100	96	4.1	100	91	9.4	70 - 130	30
1,1-Dichloroethane	ND	101	93	8.2	97	96	1.0	70 - 130	30
1,1-Dichloroethene	ND	99	95	4.1	101	96	5.1	70 - 130	30
1,1-Dichloropropene	ND	107	95	11.9	94	96	2.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	124	106	15.7	99	106	6.8	70 - 130	30
1,2,3-Trichloropropane	ND	86	86	0.0	108	82	27.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	132	112	16.4	98	107	8.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	116	105	10.0	100	103	3.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	101	97	4.0	103	92	11.3	70 - 130	30
1,2-Dibromoethane	ND	100	96	4.1	102	93	9.2	70 - 130	30
1,2-Dichlorobenzene	ND	108	99	8.7	98	98	0.0	70 - 130	30
1,2-Dichloroethane	ND	98	94	4.2	99	93	6.3	70 - 130	30
1,2-Dichloropropane	ND	102	96	6.1	99	96	3.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	113	102	10.2	100	103	3.0	70 - 130	30
1,3-Dichlorobenzene	ND	115	105	9.1	98	101	3.0	70 - 130	30
1,3-Dichloropropane	ND	101	96	5.1	103	95	8.1	70 - 130	30
1,4-Dichlorobenzene	ND	113	102	10.2	96	99	3.1	70 - 130	30
2,2-Dichloropropane	ND	108	98	9.7	96	98	2.1	70 - 130	30
2-Chlorotoluene	ND	111	101	9.4	98	102	4.0	70 - 130	30
2-Hexanone	ND	126	124	1.6	108	95	12.8	70 - 130	30
2-Isopropyltoluene	ND	111	98	12.4	100	107	6.8	70 - 130	30
4-Chlorotoluene	ND	111	100	10.4	99	100	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	103	102	1.0	103	88	15.7	70 - 130	30
Acetone	ND	136	140	2.9	121	99	20.0	70 - 130	30
Acrylonitrile	ND	94	96	2.1	101	84	18.4	70 - 130	30
Benzene	ND	102	94	8.2	97	98	1.0	70 - 130	30
Bromobenzene	ND	103	98	5.0	99	98	1.0	70 - 130	30

l

l

QA/QC Data

SDG I.D.: GBC64411

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	100	94	6.2	102	93	9.2	70 - 130	30
Bromodichloromethane	ND	101	95	6.1	100	96	4.1	70 - 130	30
Bromoform	ND	99	98	1.0	103	93	10.2	70 - 130	30
Bromomethane	ND	96	84	13.3	97	97	0.0	70 - 130	30
Carbon Disulfide	ND	97	96	1.0	103	97	6.0	70 - 130	30
Carbon tetrachloride	ND	100	92	8.3	96	100	4.1	70 - 130	30
Chlorobenzene	ND	104	96	8.0	97	98	1.0	70 - 130	30
Chloroethane	ND	96	95	1.0	105	97	7.9	70 - 130	30
Chloroform	ND	101	92	9.3	97	94	3.1	70 - 130	30
Chloromethane	ND	100	89	11.6	95	98	3.1	70 - 130	30
cis-1,2-Dichloroethene	ND	108	98	9.7	98	99	1.0	70 - 130	30
cis-1,3-Dichloropropene	ND	106	101	4.8	103	99	4.0	70 - 130	30
Dibromochloromethane	ND	102	97	5.0	104	96	8.0	70 - 130	30
Dibromomethane	ND	101	96	5.1	101	93	8.2	70 - 130	30
Dichlorodifluoromethane	ND	97	86	12.0	96	99	3.1	70 - 130	30
Ethylbenzene	ND	106	95	10.9	98	102	4.0	70 - 130	30
Hexachlorobutadiene	ND	115	90	24.4	92	106	14.1	70 - 130	30
Isopropylbenzene	ND	112	101	10.3	100	105	4.9	70 - 130	30
m&p-Xylene	ND	110	99	10.5	97	102	5.0	70 - 130	30
Methyl ethyl ketone	ND	130	120	8.0	110	93	16.7	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	96	93	3.2	100	91	9.4	70 - 130	30
Methylene chloride	ND	72	74	2.7	75	66	12.8	70 - 130	30
Naphthalene	ND	130	103	23.2	106	117	9.9	70 - 130	30
n-Butylbenzene	ND	123	104	16.7	95	105	10.0	70 - 130	30
n-Propylbenzene	ND	117	103	12.7	97	103	6.0	70 - 130	30
o-Xylene	ND	109	99	9.6	99	102	3.0	70 - 130	30
p-Isopropyltoluene	ND	120	105	13.3	99	106	6.8	70 - 130	30
sec-Butylbenzene	ND	111	98	12.4	99	105	5.9	70 - 130	30
Styrene	ND	105	99	5.9	100	99	1.0	70 - 130	30
tert-Butylbenzene	ND	112	99	12.3	100	107	6.8	70 - 130	30
Tetrachloroethene	ND	107	98	8.8	95	100	5.1	70 - 130	30
Tetrahydrofuran (THF)	ND	97	97	0.0	103	84	20.3	70 - 130	30
Toluene	ND	103	95	8.1	96	98	2.1	70 - 130	30
trans-1,2-Dichloroethene	ND	100	92	8.3	97	97	0.0	70 - 130	30
trans-1,3-Dichloropropene	ND	105	98	6.9	102	96	6.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	111	104	6.5	105	99	5.9	70 - 130	30
Trichloroethene	ND	102	94	8.2	96	99	3.1	70 - 130	30
Trichlorofluoromethane	ND	106	97	8.9	101	98	3.0	70 - 130	30
Trichlorotrifluoroethane	ND	101	96	5.1	102	97	5.0	70 - 130	30
Vinyl chloride	ND	100	92	8.3	98	98	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	103	98	99	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	93	99	100	1.0	100	98	2.0	70 - 130	30
% Dibromofluoromethane	102	98	103	5.0	103	99	4.0	70 - 130	30
% Toluene-d8	100	100	100	0.0	100	100	0.0	70 - 130	30

m

Comment:

A blank MS/MSD was analyzed with this batch.

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.

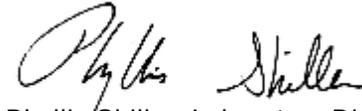
QA/QC Data

SDG I.D.: GBC64411

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 12, 2012

Sample Criteria Exceedences Report

GBC64411 - EBC

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BC64411	\$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	510	330	330	ug/Kg
BC64411	\$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	510	330	330	ug/Kg
BC64411	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	21000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	21000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	21000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	21000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	22000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	22000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	5400	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5400	510	800	800	ug/Kg
BC64411	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	18000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	18000	510	1000	1000	ug/Kg
BC64411	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	9500	510	500	500	ug/Kg
BC64411	\$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	9500	510	500	500	ug/Kg
BC64411	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	3800	510	330	330	ug/Kg
BC64411	\$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3800	510	330	330	ug/Kg
BC64411	\$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.4	5	5	ug/Kg
BC64411	\$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	3.3	3.3	ug/Kg
BC64411	\$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.4	5	5	ug/Kg
BC64411	\$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	14	14	ug/Kg
BC64411	\$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	3.3	3.3	ug/Kg
BC64411	\$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	34	3.3	3.3	ug/Kg
BC64411	BA-SM	Barium	NY / 375-6.8 Metals / Residential	762	0.34	350	350	mg/Kg
BC64411	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	762	0.34	350	350	mg/Kg
BC64411	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	0.82	0.08	0.81	0.81	mg/Kg
BC64411	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.82	0.08	0.18	0.18	mg/Kg
BC64411	PB-SM	Lead	NY / 375-6.8 Metals / Residential	7280	34	400	400	mg/Kg
BC64411	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	7280	34	63	63	mg/Kg
BC64411	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	545	3.4	109	109	mg/Kg

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

NY/NJ CHAIN OF CUSTODY RECORD



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

Client Services (860) 645-8726

Data Delivery:

Fax #:
 Email: C.Sosik@eblincny.com

Customer: EBC Project: 403 Greenwich Street Project P.O.:
 Address: 1808 Middle Country Road Report to: EBC Phone #: 637 504 6000
 Ridge, NY 11961 Invoice to: EBC Fax #:

Client Sample - Information - Identification
 Samplers Signature: [Signature] Date: 9-4-12

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

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
64411	B1 0-2	S	9-4-12	
64412	B1 12-14			
64413	B2 0-2			
64414	B2 12-14			
64415	B3 0-2			
64416	B3 12-14			
64417	Duplicate			

Analysis Request

Analysis Request	Res. Criteria	Non-Res. Criteria	Impact to GW Soil Cleanup Criteria	GW Criteria
VOCs 8260	X	X	X	X
pesticides 8270	X	X	X	X
pesticides 8281/8282	X	X	X	X
pesticides 8291	X	X	X	X
pesticides 8292	X	X	X	X
pesticides 8293	X	X	X	X
pesticides 8294	X	X	X	X
pesticides 8295	X	X	X	X
pesticides 8296	X	X	X	X
pesticides 8297	X	X	X	X
pesticides 8298	X	X	X	X
pesticides 8299	X	X	X	X
pesticides 8300	X	X	X	X
pesticides 8301	X	X	X	X
pesticides 8302	X	X	X	X
pesticides 8303	X	X	X	X
pesticides 8304	X	X	X	X
pesticides 8305	X	X	X	X
pesticides 8306	X	X	X	X
pesticides 8307	X	X	X	X
pesticides 8308	X	X	X	X
pesticides 8309	X	X	X	X
pesticides 8310	X	X	X	X
pesticides 8311	X	X	X	X
pesticides 8312	X	X	X	X
pesticides 8313	X	X	X	X
pesticides 8314	X	X	X	X
pesticides 8315	X	X	X	X
pesticides 8316	X	X	X	X
pesticides 8317	X	X	X	X
pesticides 8318	X	X	X	X
pesticides 8319	X	X	X	X
pesticides 8320	X	X	X	X
pesticides 8321	X	X	X	X
pesticides 8322	X	X	X	X
pesticides 8323	X	X	X	X
pesticides 8324	X	X	X	X
pesticides 8325	X	X	X	X
pesticides 8326	X	X	X	X
pesticides 8327	X	X	X	X
pesticides 8328	X	X	X	X
pesticides 8329	X	X	X	X
pesticides 8330	X	X	X	X
pesticides 8331	X	X	X	X
pesticides 8332	X	X	X	X
pesticides 8333	X	X	X	X
pesticides 8334	X	X	X	X
pesticides 8335	X	X	X	X
pesticides 8336	X	X	X	X
pesticides 8337	X	X	X	X
pesticides 8338	X	X	X	X
pesticides 8339	X	X	X	X
pesticides 8340	X	X	X	X
pesticides 8341	X	X	X	X
pesticides 8342	X	X	X	X
pesticides 8343	X	X	X	X
pesticides 8344	X	X	X	X
pesticides 8345	X	X	X	X
pesticides 8346	X	X	X	X
pesticides 8347	X	X	X	X
pesticides 8348	X	X	X	X
pesticides 8349	X	X	X	X
pesticides 8350	X	X	X	X
pesticides 8351	X	X	X	X
pesticides 8352	X	X	X	X
pesticides 8353	X	X	X	X
pesticides 8354	X	X	X	X
pesticides 8355	X	X	X	X
pesticides 8356	X	X	X	X
pesticides 8357	X	X	X	X
pesticides 8358	X	X	X	X
pesticides 8359	X	X	X	X
pesticides 8360	X	X	X	X
pesticides 8361	X	X	X	X
pesticides 8362	X	X	X	X
pesticides 8363	X	X	X	X
pesticides 8364	X	X	X	X
pesticides 8365	X	X	X	X
pesticides 8366	X	X	X	X
pesticides 8367	X	X	X	X
pesticides 8368	X	X	X	X
pesticides 8369	X	X	X	X
pesticides 8370	X	X	X	X
pesticides 8371	X	X	X	X
pesticides 8372	X	X	X	X
pesticides 8373	X	X	X	X
pesticides 8374	X	X	X	X
pesticides 8375	X	X	X	X
pesticides 8376	X	X	X	X
pesticides 8377	X	X	X	X
pesticides 8378	X	X	X	X
pesticides 8379	X	X	X	X
pesticides 8380	X	X	X	X
pesticides 8381	X	X	X	X
pesticides 8382	X	X	X	X
pesticides 8383	X	X	X	X
pesticides 8384	X	X	X	X
pesticides 8385	X	X	X	X
pesticides 8386	X	X	X	X
pesticides 8387	X	X	X	X
pesticides 8388	X	X	X	X
pesticides 8389	X	X	X	X
pesticides 8390	X	X	X	X
pesticides 8391	X	X	X	X
pesticides 8392	X	X	X	X
pesticides 8393	X	X	X	X
pesticides 8394	X	X	X	X
pesticides 8395	X	X	X	X
pesticides 8396	X	X	X	X
pesticides 8397	X	X	X	X
pesticides 8398	X	X	X	X
pesticides 8399	X	X	X	X
pesticides 8400	X	X	X	X
pesticides 8401	X	X	X	X
pesticides 8402	X	X	X	X
pesticides 8403	X	X	X	X
pesticides 8404	X	X	X	X
pesticides 8405	X	X	X	X
pesticides 8406	X	X	X	X
pesticides 8407	X	X	X	X
pesticides 8408	X	X	X	X
pesticides 8409	X	X	X	X
pesticides 8410	X	X	X	X
pesticides 8411	X	X	X	X
pesticides 8412	X	X	X	X
pesticides 8413	X	X	X	X
pesticides 8414	X	X	X	X
pesticides 8415	X	X	X	X
pesticides 8416	X	X	X	X
pesticides 8417	X	X	X	X
pesticides 8418	X	X	X	X
pesticides 8419	X	X	X	X
pesticides 8420	X	X	X	X
pesticides 8421	X	X	X	X
pesticides 8422	X	X	X	X
pesticides 8423	X	X	X	X
pesticides 8424	X	X	X	X
pesticides 8425	X	X	X	X
pesticides 8426	X	X	X	X
pesticides 8427	X	X	X	X
pesticides 8428	X	X	X	X
pesticides 8429	X	X	X	X
pesticides 8430	X	X	X	X
pesticides 8431	X	X	X	X
pesticides 8432	X	X	X	X
pesticides 8433	X	X	X	X
pesticides 8434	X	X	X	X
pesticides 8435	X	X	X	X
pesticides 8436	X	X	X	X
pesticides 8437	X	X	X	X
pesticides 8438	X	X	X	X
pesticides 8439	X	X	X	X
pesticides 8440	X	X	X	X
pesticides 8441	X	X	X	X
pesticides 8442	X	X	X	X
pesticides 8443	X	X	X	X
pesticides 8444	X	X	X	X
pesticides 8445	X	X	X	X
pesticides 8446	X	X	X	X
pesticides 8447	X	X	X	X
pesticides 8448	X	X	X	X
pesticides 8449	X	X	X	X
pesticides 8450	X	X	X	X
pesticides 8451	X	X	X	X
pesticides 8452	X	X	X	X
pesticides 8453	X	X	X	X
pesticides 8454	X	X	X	X
pesticides 8455	X	X	X	X
pesticides 8456	X	X	X	X
pesticides 8457	X	X	X	X
pesticides 8458	X	X	X	X
pesticides 8459	X	X	X	X
pesticides 8460	X	X	X	X
pesticides 8461	X	X	X	X
pesticides 8462	X	X	X	X
pesticides 8463	X	X	X	X
pesticides 8464	X	X	X	X
pesticides 8465	X	X	X	X
pesticides 8466	X	X	X	X
pesticides 8467	X	X	X	X
pesticides 8468	X	X	X	X
pesticides 8469	X	X	X	X
pesticides 8470	X	X	X	X
pesticides 8471	X	X	X	X
pesticides 8472	X	X	X	X
pesticides 8473	X	X	X	X
pesticides 8474	X	X	X	X
pesticides 8475	X	X	X	X
pesticides 8476	X	X	X	X
pesticides 8477	X	X	X	X
pesticides 8478	X	X	X	X
pesticides 8479	X	X	X	X
pesticides 8480	X	X	X	X
pesticides 8481	X	X	X	X
pesticides 8482	X	X	X	X
pesticides 8483	X	X	X	X
pesticides 8484	X	X	X	X
pesticides 8485	X	X	X	X
pesticides 8486	X	X	X	X
pesticides 8487	X	X	X	X
pesticides 8488	X	X	X	X
pesticides 8489	X	X	X	X
pesticides 8490	X	X	X	X
pesticides 8491	X	X	X	X
pesticides 8492	X	X	X	X
pesticides 8493	X	X	X	X
pesticides 8494	X	X	X	X
pesticides 8495	X	X	X	X
pesticides 8496	X	X	X	X
pesticides 8497	X	X	X	X
pesticides 8498	X	X	X	X
pesticides 8499	X	X	X	X
pesticides 8500	X	X	X	X
pesticides 8501	X	X	X	X
pesticides 8502	X	X	X	X
pesticides 8503	X	X	X	X
pesticides 8504	X	X	X	X
pesticides 8505	X	X	X	X
pesticides 8506	X	X	X	X
pesticides 8507	X	X	X	X
pesticides 8508	X	X	X	X
pesticides 8509	X	X	X	X
pesticides 8510	X	X	X	X
pesticides 8511	X	X	X	X
pesticides 8512	X	X	X	X
pesticides 8513	X	X	X	X
pesticides 8514	X	X	X	X
pesticides 8515	X	X	X	X
pesticides 8516	X	X	X	X
pesticides 8517	X	X	X	X
pesticides 8518	X	X	X	X
pesticides 8519	X	X	X	X
pesticides 8520	X	X	X	X
pesticides 8521	X	X	X	X
pesticides 8522	X	X	X	X
pesticides 8523	X	X	X	X
pesticides 8524	X	X	X	X
pesticides 8525	X	X	X	X
pesticides 8526	X	X	X	X
pesticides 8527	X	X	X	X
pesticides 8528	X	X	X	X
pesticides 8529	X	X	X	X
pesticides 8530	X	X	X	X
pesticides 8531	X	X	X	X
pesticides 8532	X	X	X	X
pesticides 8533	X	X	X	X
pesticides 8534	X	X	X	X
pesticides 8535	X	X	X	X
pesticides 8536	X	X	X	X
pesticides 8537	X	X	X	X
pesticides 8538	X	X	X	X
pesticides 8539	X	X	X	X
pesticides 8540	X	X	X	X
pesticides 8541	X	X	X	X
pesticides 8542	X	X	X	X



Tuesday, September 25, 2012

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

Project ID: 403 GREENWICH ST.
Sample ID#s: BC67365 - BC67368

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

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

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

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

Sincerely yours,

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 25, 2012

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

Sample Information

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

Custody Information

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

Date

09/11/12
 09/12/12

Time

0:00
 16:15

Laboratory Data

SDG ID: GBC67365
 Phoenix ID: BC67365

Project ID: 403 GREENWICH ST.
 Client ID: MW1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Aluminum	1.52	0.010	mg/L	09/14/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/14/12	LK	SW6010
Barium	0.604	0.002	mg/L	09/14/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Calcium	103	0.010	mg/L	09/14/12	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Chromium	0.004	0.001	mg/L	09/14/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Aluminum (Dissolved)	< 0.01	0.01	mg/L	09/13/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/13/12	LK	SW6010
Barium (Dissolved)	0.575	0.002	mg/L	09/13/12	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Calcium (Dissolved)	106	0.01	mg/L	09/13/12	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Cobalt (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Iron (Dissolved)	0.053	0.011	mg/L	09/13/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium (Dissolved)	20.1	0.1	mg/L	09/13/12	LK	SW6010
Magnesium (Dissolved)	44.3	0.01	mg/L	09/13/12	LK	SW6010
Manganese (Dissolved)	1.89	0.001	mg/L	09/13/12	LK	SW6010
Sodium (Dissolved)	191	1.1	mg/L	09/14/12	EK	SW6010
Nickel (Dissolved)	0.007	0.001	mg/L	09/13/12	LK	SW6010
Lead (Dissolved)	0.003	0.002	mg/L	09/13/12	LK	SW6010

B

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/13/12	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010
Zinc (Dissolved)	0.003	0.002	mg/L	09/13/12	LK	SW6010
Iron	2.88	0.010	mg/L	09/14/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium	21.7	0.1	mg/L	09/14/12	LK	SW6010
Magnesium	42.0	0.01	mg/L	09/14/12	LK	SW6010
Manganese	1.92	0.001	mg/L	09/14/12	LK	SW6010
Sodium	176	1.0	mg/L	09/19/12	LK	SW6010
Nickel	0.011	0.001	mg/L	09/14/12	LK	SW6010
Lead	0.040	0.002	mg/L	09/14/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	09/14/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	09/15/12	TH	SW7010
Vanadium	0.006	0.002	mg/L	09/14/12	LK	SW6010
Zinc	0.014	0.002	mg/L	09/14/12	LK	SW6010
Filtration	Completed			09/13/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			09/13/12	X/X	SW7470
Mercury Digestion	Completed			09/13/12	X/X	SW7470
PCB Extraction	Completed			09/12/12	TB	SW3510C
Extraction for Pest (2 Liter)	Completed			09/12/12	TB/T	SW3510
Semi-Volatile Extraction	Completed			09/13/12	F/D	SW3520
Dissolved Metals Preparation	Completed			09/13/12	AG	SW846-3005
Total Metals Digestion	Completed			09/12/12	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1221	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1232	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1242	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1248	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1254	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1260	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1262	ND	0.50	ug/L	09/17/12	AW	608/ 8082
PCB-1268	ND	0.50	ug/L	09/17/12	AW	608/ 8082

QA/QC Surrogates

% DCBP	72		%	09/17/12	AW	30 - 150 %
% TCMX	74		%	09/17/12	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	09/14/12	MH	SW8081
a-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081
Alachlor	ND	0.1	ug/L	09/14/12	MH	SW8081
Aldrin	ND	0.003	ug/L	09/14/12	MH	SW8081
b-BHC	ND	0.01	ug/L	09/14/12	MH	SW8081
Chlordane	ND	0.3	ug/L	09/14/12	MH	SW8081
d-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081

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Dieldrin	ND	0.002	ug/L	09/14/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	09/14/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	09/14/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	09/14/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	09/14/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	09/14/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	09/14/12	MH	SW8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	105		%	09/14/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	85		%	09/14/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	09/16/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Acetone	ND	25	ug/L	09/16/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	09/16/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/16/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	09/16/12	R/T	SW8260

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	09/16/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroform	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	09/16/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/16/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	09/16/12	R/T	SW8260
Toluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/16/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	09/16/12	R/T	70 - 130 %
% Bromofluorobenzene	91		%	09/16/12	R/T	70 - 130 %
% Dibromofluoromethane	99		%	09/16/12	R/T	70 - 130 %
% Toluene-d8	97		%	09/16/12	R/T	70 - 130 %
<u>Semivolatiles</u>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	09/16/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/16/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	09/16/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	09/16/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	09/16/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	09/16/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	09/16/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	09/16/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	09/16/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/16/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	09/16/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	09/16/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/16/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	09/16/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	09/16/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	09/16/12	DD	SW8270
Aniline	ND	10	ug/L	09/16/12	DD	SW8270
Anthracene	ND	5.0	ug/L	09/16/12	DD	SW8270
Azobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
Benzidine	ND	50	ug/L	09/16/12	DD	SW8270
Benzoic acid	ND	50	ug/L	09/16/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/16/12	DD	SW8270
Carbazole	ND	5.0	ug/L	09/16/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	09/16/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	09/16/12	DD	SW8270
Fluorene	ND	5.0	ug/L	09/16/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	09/16/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/16/12	DD	SW8270
Isophorone	ND	5.0	ug/L	09/16/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
Phenol	ND	10	ug/L	09/16/12	DD	SW8270
Pyrene	ND	5.0	ug/L	09/16/12	DD	SW8270

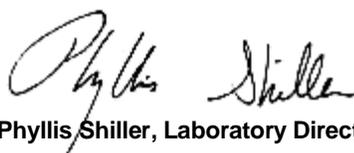
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	115		%	09/16/12	DD	15 - 130 %
% 2-Fluorobiphenyl	89		%	09/16/12	DD	40 - 140 %
% 2-Fluorophenol	91		%	09/16/12	DD	15 - 130 %
% Nitrobenzene-d5	99		%	09/16/12	DD	40 - 140 %
% Phenol-d5	91		%	09/16/12	DD	15 - 130 %
% Terphenyl-d14	112		%	09/16/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	09/14/12	DD	SW8270 (SIM)
Chrysene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	09/14/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	09/14/12	DD	SW8270 (SIM)
Phenanthrene	0.24	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	09/14/12	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	115		%	09/14/12	DD	15 - 130 %
% 2-Fluorobiphenyl	89		%	09/14/12	DD	40 - 140 %
% 2-Fluorophenol	91		%	09/14/12	DD	15 - 130 %
% Nitrobenzene-d5	99		%	09/14/12	DD	40 - 140 %
% Phenol-d5	91		%	09/14/12	DD	15 - 130 %
% Terphenyl-d14	112		%	09/14/12	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.
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:

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 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 25, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/11/12 0:00
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67365
 Phoenix ID: BC67366

Project ID: 403 GREENWICH ST.
 Client ID: MW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Aluminum	0.241	0.010	mg/L	09/14/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/14/12	LK	SW6010
Barium	0.803	0.002	mg/L	09/14/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Calcium	195	0.10	mg/L	09/14/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Cobalt	0.002	0.002	mg/L	09/14/12	LK	SW6010
Chromium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Aluminum (Dissolved)	0.12	0.01	mg/L	09/13/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/13/12	LK	SW6010
Barium (Dissolved)	0.788	0.002	mg/L	09/13/12	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Calcium (Dissolved)	186	0.11	mg/L	09/14/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Cobalt (Dissolved)	0.002	0.001	mg/L	09/13/12	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Iron (Dissolved)	0.173	0.011	mg/L	09/13/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium (Dissolved)	34.4	0.1	mg/L	09/13/12	LK	SW6010
Magnesium (Dissolved)	65.5	0.01	mg/L	09/13/12	LK	SW6010
Manganese (Dissolved)	17.3	0.011	mg/L	09/14/12	EK	SW6010
Sodium (Dissolved)	587	11	mg/L	09/14/12	EK	SW6010
Nickel (Dissolved)	0.015	0.001	mg/L	09/13/12	LK	SW6010
Lead (Dissolved)	0.009	0.002	mg/L	09/13/12	LK	SW6010

B

Client ID: MW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/14/12	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/14/12	EK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010
Zinc (Dissolved)	0.011	0.002	mg/L	09/13/12	LK	SW6010
Iron	0.664	0.010	mg/L	09/14/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium	39.0	0.1	mg/L	09/14/12	LK	SW6010
Magnesium	63.6	0.01	mg/L	09/14/12	LK	SW6010
Manganese	18.2	0.010	mg/L	09/14/12	EK	SW6010
Sodium	580	1.0	mg/L	09/17/12	LK	SW6010
Nickel	0.016	0.001	mg/L	09/14/12	LK	SW6010
Lead	0.019	0.002	mg/L	09/14/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	09/14/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	09/14/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	09/15/12	TH	SW7010
Vanadium	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Zinc	0.014	0.002	mg/L	09/14/12	LK	SW6010
Filtration	Completed			09/13/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			09/13/12	X/X	SW7470
Mercury Digestion	Completed			09/13/12	X/X	SW7470
PCB Extraction	Completed			09/12/12	TB	SW3510C
Extraction for Pest (2 Liter)	Completed			09/12/12	TB/T	SW3510
Semi-Volatile Extraction	Completed			09/13/12	F/D	SW3520
Dissolved Metals Preparation	Completed			09/13/12	AG	SW846-3005
Total Metals Digestion	Completed			09/12/12	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1254	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	09/17/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	09/17/12	AW	608/ 8082

QA/QC Surrogates

% DCBP	76		%	09/17/12	AW	30 - 150 %
% TCMX	62		%	09/17/12	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.1	ug/L	09/17/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	09/17/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	09/17/12	MH	SW8081
a-BHC	ND	0.05	ug/L	09/17/12	MH	SW8081
Alachlor	ND	0.1	ug/L	09/17/12	MH	SW8081
Aldrin	ND	0.003	ug/L	09/17/12	MH	SW8081
b-BHC	ND	0.01	ug/L	09/17/12	MH	SW8081
Chlordane	ND	0.3	ug/L	09/17/12	MH	SW8081
d-BHC	ND	0.05	ug/L	09/17/12	MH	SW8081

Client ID: MW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	ND*	0.05	ug/L	09/17/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	09/17/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	09/17/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	09/17/12	MH	SW8081
Endrin	ND	0.1	ug/L	09/17/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	09/17/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	09/17/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	09/17/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	09/17/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	09/17/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	09/17/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	09/17/12	MH	SW8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	117		%	09/17/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	101		%	09/17/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/18/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	09/18/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	09/18/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	09/18/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	09/18/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	09/18/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	09/18/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	09/18/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	09/18/12	R/T	SW8260
Acetone	ND	25	ug/L	09/18/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	09/18/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/18/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	09/18/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	09/18/12	R/T	SW8260

Client ID: MW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	09/18/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/18/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Chloroform	ND	1.0	ug/L	09/18/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/18/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/18/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	09/18/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	09/18/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	09/18/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/18/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	09/18/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	09/18/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/18/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	09/18/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/18/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	09/18/12	R/T	SW8260
Toluene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/18/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/18/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/18/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/18/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/18/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/18/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/18/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	101		%	09/18/12	R/T	70 - 130 %
% Bromofluorobenzene	93		%	09/18/12	R/T	70 - 130 %
% Dibromofluoromethane	100		%	09/18/12	R/T	70 - 130 %
% Toluene-d8	96		%	09/18/12	R/T	70 - 130 %
<u>Semivolatiles</u>						
1,2,4-Trichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270

Client ID: MW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	09/16/12	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	09/16/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/16/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Chlorophenol	ND	10	ug/L	09/16/12	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	09/16/12	DD	SW8270
2-Nitroaniline	ND	50	ug/L	09/16/12	DD	SW8270
2-Nitrophenol	ND	10	ug/L	09/16/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	09/16/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	09/16/12	DD	SW8270
3-Nitroaniline	ND	50	ug/L	09/16/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	09/16/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/16/12	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	09/16/12	DD	SW8270
4-Chloroaniline	ND	20	ug/L	09/16/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/16/12	DD	SW8270
4-Nitroaniline	ND	20	ug/L	09/16/12	DD	SW8270
4-Nitrophenol	ND	50	ug/L	09/16/12	DD	SW8270
Acetophenone	ND	5.0	ug/L	09/16/12	DD	SW8270
Aniline	ND	10	ug/L	09/16/12	DD	SW8270
Anthracene	ND	5.0	ug/L	09/16/12	DD	SW8270
Azobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
Benzidine	ND	50	ug/L	09/16/12	DD	SW8270
Benzoic acid	ND	50	ug/L	09/16/12	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/16/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/16/12	DD	SW8270
Carbazole	ND	5.0	ug/L	09/16/12	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	09/16/12	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	09/16/12	DD	SW8270
Fluoranthene	ND	5.0	ug/L	09/16/12	DD	SW8270
Fluorene	ND	5.0	ug/L	09/16/12	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	09/16/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/16/12	DD	SW8270
Isophorone	ND	5.0	ug/L	09/16/12	DD	SW8270
Naphthalene	ND	5.0	ug/L	09/16/12	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/16/12	DD	SW8270
Phenol	ND	10	ug/L	09/16/12	DD	SW8270
Pyrene	ND	5.0	ug/L	09/16/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	104		%	09/16/12	DD	15 - 130 %
% 2-Fluorobiphenyl	90		%	09/16/12	DD	40 - 140 %
% 2-Fluorophenol	82		%	09/16/12	DD	15 - 130 %
% Nitrobenzene-d5	96		%	09/16/12	DD	40 - 140 %
% Phenol-d5	80		%	09/16/12	DD	15 - 130 %
% Terphenyl-d14	124		%	09/16/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benz(a)anthracene	0.27	0.040	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(a)pyrene	0.21	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.31	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	0.09	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	09/14/12	DD	SW8270 (SIM)
Chrysene	0.26	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	09/14/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.12	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	09/14/12	DD	SW8270 (SIM)
Phenanthrene	0.52	0.050	ug/L	09/14/12	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	09/14/12	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	104		%	09/14/12	DD	15 - 130 %
% 2-Fluorobiphenyl	90		%	09/14/12	DD	40 - 140 %
% 2-Fluorophenol	82		%	09/14/12	DD	15 - 130 %
% Nitrobenzene-d5	96		%	09/14/12	DD	40 - 140 %
% Phenol-d5	80		%	09/14/12	DD	15 - 130 %
% Terphenyl-d14	124		%	09/14/12	DD	40 - 140 %

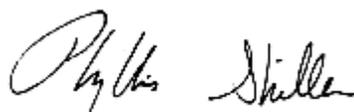
1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
 B = Present in blank, no bias suspected.

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

Comments:

* 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 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 25, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/11/12 0:00
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67365
 Phoenix ID: BC67367

Project ID: 403 GREENWICH ST.
 Client ID: MW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Aluminum	0.116	0.010	mg/L	09/14/12	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/14/12	LK	SW6010
Barium	0.797	0.002	mg/L	09/14/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Calcium	233	0.10	mg/L	09/14/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Chromium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Aluminum (Dissolved)	0.04	0.01	mg/L	09/19/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/13/12	LK	SW6010
Barium (Dissolved)	0.826	0.002	mg/L	09/13/12	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Calcium (Dissolved)	223	0.11	mg/L	09/14/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Cobalt (Dissolved)	0.002	0.001	mg/L	09/13/12	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Iron (Dissolved)	0.118	0.011	mg/L	09/13/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium (Dissolved)	38.2	0.1	mg/L	09/13/12	LK	SW6010
Magnesium (Dissolved)	53.1	0.01	mg/L	09/13/12	LK	SW6010
Manganese (Dissolved)	6.60	0.011	mg/L	09/14/12	EK	SW6010
Sodium (Dissolved)	715	11	mg/L	09/14/12	EK	SW6010
Nickel (Dissolved)	0.013	0.001	mg/L	09/13/12	LK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010

Client ID: MW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/13/12	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010
Zinc (Dissolved)	0.002	0.002	mg/L	09/13/12	LK	SW6010
Iron	0.845	0.010	mg/L	09/14/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium	41.8	0.1	mg/L	09/14/12	LK	SW6010
Magnesium	48.3	0.01	mg/L	09/14/12	LK	SW6010
Manganese	7.02	0.010	mg/L	09/14/12	EK	SW6010
Sodium	558	1.0	mg/L	09/17/12	LK	SW6010
Nickel	0.014	0.001	mg/L	09/14/12	LK	SW6010
Lead	0.002	0.002	mg/L	09/14/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	09/14/12	EK	SW6010
Selenium	< 0.010	0.010	mg/L	09/14/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	09/15/12	TH	SW7010
Vanadium	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Zinc	0.003	0.002	mg/L	09/14/12	LK	SW6010
Filtration	Completed			09/13/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			09/13/12	X/X	SW7470
Mercury Digestion	Completed			09/13/12	X/X	SW7470
PCB Extraction	Completed			09/12/12	TB	SW3510C
Extraction for Pest (2 Liter)	Completed			09/12/12	TB/T	SW3510
Semi-Volatile Extraction	Completed			09/13/12	F/D	SW3520
Dissolved Metals Preparation	Completed			09/13/12	AG	SW846-3005
Total Metals Digestion	Completed			09/12/12	AG	
Polychlorinated Biphenyls						
PCB-1016	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1221	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1232	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1242	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1248	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1254	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1260	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1262	ND	0.11	ug/L	09/14/12	AW	608/ 8082
PCB-1268	ND	0.11	ug/L	09/14/12	AW	608/ 8082
QA/QC Surrogates						
% DCBP	85		%	09/14/12	AW	30 - 150 %
% TCMX	76		%	09/14/12	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	09/14/12	MH	SW8081
a-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081
Alachlor	ND	0.1	ug/L	09/14/12	MH	SW8081
Aldrin	ND	0.003	ug/L	09/14/12	MH	SW8081
b-BHC	ND	0.01	ug/L	09/14/12	MH	SW8081
Chlordane	ND	0.3	ug/L	09/14/12	MH	SW8081
d-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081

Client ID: MW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	ND	0.002	ug/L	09/14/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	09/14/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	09/14/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	09/14/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	09/14/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	09/14/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	09/14/12	MH	SW8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	121		%	09/14/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	97		%	09/14/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	09/16/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Acetone	ND	25	ug/L	09/16/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	09/16/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/16/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	09/16/12	R/T	SW8260

Client ID: MW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	09/16/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroform	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	09/16/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/16/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	09/16/12	R/T	SW8260
Toluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/16/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	09/16/12	R/T	70 - 130 %
% Bromofluorobenzene	90		%	09/16/12	R/T	70 - 130 %
% Dibromofluoromethane	99		%	09/16/12	R/T	70 - 130 %
% Toluene-d8	97		%	09/16/12	R/T	70 - 130 %
<u>Semivolatiles</u>						
1,2,4-Trichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270

Client ID: MW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dinitrophenol	ND	53	ug/L	09/16/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.3	ug/L	09/16/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Chloronaphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Chlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2-Methylnaphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	09/16/12	DD	SW8270
2-Nitroaniline	ND	53	ug/L	09/16/12	DD	SW8270
2-Nitrophenol	ND	11	ug/L	09/16/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	09/16/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	53	ug/L	09/16/12	DD	SW8270
3-Nitroaniline	ND	53	ug/L	09/16/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	53	ug/L	09/16/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.3	ug/L	09/16/12	DD	SW8270
4-Chloro-3-methylphenol	ND	21	ug/L	09/16/12	DD	SW8270
4-Chloroaniline	ND	21	ug/L	09/16/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.3	ug/L	09/16/12	DD	SW8270
4-Nitroaniline	ND	21	ug/L	09/16/12	DD	SW8270
4-Nitrophenol	ND	53	ug/L	09/16/12	DD	SW8270
Acetophenone	ND	5.3	ug/L	09/16/12	DD	SW8270
Aniline	ND	11	ug/L	09/16/12	DD	SW8270
Anthracene	ND	5.3	ug/L	09/16/12	DD	SW8270
Azobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
Benzidine	ND	53	ug/L	09/16/12	DD	SW8270
Benzoic acid	ND	53	ug/L	09/16/12	DD	SW8270
Benzyl butyl phthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.3	ug/L	09/16/12	DD	SW8270
Carbazole	ND	5.3	ug/L	09/16/12	DD	SW8270
Dibenzofuran	ND	5.3	ug/L	09/16/12	DD	SW8270
Diethyl phthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Dimethylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Di-n-butylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Di-n-octylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Fluoranthene	ND	5.3	ug/L	09/16/12	DD	SW8270
Fluorene	ND	5.3	ug/L	09/16/12	DD	SW8270
Hexachlorobutadiene	ND	5.3	ug/L	09/16/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.3	ug/L	09/16/12	DD	SW8270
Isophorone	ND	5.3	ug/L	09/16/12	DD	SW8270
Naphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
Nitrobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
Phenol	ND	11	ug/L	09/16/12	DD	SW8270
Pyrene	ND	5.3	ug/L	09/16/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	116		%	09/16/12	DD	15 - 130 %
% 2-Fluorobiphenyl	88		%	09/16/12	DD	40 - 140 %
% 2-Fluorophenol	80		%	09/16/12	DD	15 - 130 %
% Nitrobenzene-d5	97		%	09/16/12	DD	40 - 140 %
% Phenol-d5	80		%	09/16/12	DD	15 - 130 %
% Terphenyl-d14	117		%	09/16/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.7	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.042	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.2	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	4.1	1.7	ug/L	09/14/12	DD	SW8270 (SIM)
Chrysene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.011	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.063	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.5	ug/L	09/14/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.84	ug/L	09/14/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Pyridine	ND	0.53	ug/L	09/14/12	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	116		%	09/14/12	DD	15 - 130 %
% 2-Fluorobiphenyl	88		%	09/14/12	DD	40 - 140 %
% 2-Fluorophenol	80		%	09/14/12	DD	15 - 130 %
% Nitrobenzene-d5	97		%	09/14/12	DD	40 - 140 %
% Phenol-d5	80		%	09/14/12	DD	15 - 130 %
% Terphenyl-d14	117		%	09/14/12	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.
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:

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 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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 25, 2012

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

Sample Information

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

Custody Information

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

Date Time
 09/11/12 0:00
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67365
 Phoenix ID: BC67368

Project ID: 403 GREENWICH ST.
 Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Aluminum	< 0.10	0.10	mg/L	09/14/12	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	09/14/12	LK	SW6010
Barium	0.812	0.002	mg/L	09/14/12	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Calcium	230	0.10	mg/L	09/14/12	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Cobalt	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Chromium	< 0.001	0.001	mg/L	09/14/12	LK	SW6010
Copper	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Aluminum (Dissolved)	0.01	0.01	mg/L	09/19/12	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/13/12	LK	SW6010
Barium (Dissolved)	0.820	0.002	mg/L	09/13/12	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Calcium (Dissolved)	226	0.11	mg/L	09/14/12	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Cobalt (Dissolved)	0.002	0.001	mg/L	09/13/12	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	09/13/12	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Iron (Dissolved)	< 0.011	0.011	mg/L	09/13/12	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium (Dissolved)	38.1	0.1	mg/L	09/13/12	LK	SW6010
Magnesium (Dissolved)	52.4	0.01	mg/L	09/13/12	LK	SW6010
Manganese (Dissolved)	6.74	0.011	mg/L	09/14/12	EK	SW6010
Sodium (Dissolved)	635	11	mg/L	09/14/12	EK	SW6010
Nickel (Dissolved)	0.013	0.001	mg/L	09/13/12	LK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010

Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/13/12	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/13/12	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/13/12	LK	SW6010
Zinc (Dissolved)	0.004	0.002	mg/L	09/13/12	LK	SW6010
Iron	0.551	0.010	mg/L	09/14/12	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	09/13/12	RS	SW7470
Potassium	42.4	0.1	mg/L	09/14/12	LK	SW6010
Magnesium	49.3	0.01	mg/L	09/14/12	LK	SW6010
Manganese	6.89	0.010	mg/L	09/14/12	EK	SW6010
Sodium	580	10	mg/L	09/19/12	LK	SW6010
Nickel	0.013	0.001	mg/L	09/14/12	LK	SW6010
Lead	0.002	0.002	mg/L	09/14/12	LK	SW6010
Antimony	< 0.005	0.005	mg/L	09/14/12	LK	SW6010
Selenium	< 0.010	0.010	mg/L	09/14/12	LK	SW6010
Thallium	< 0.002	0.002	mg/L	09/15/12	TH	SW7010
Vanadium	< 0.002	0.002	mg/L	09/14/12	LK	SW6010
Zinc	0.002	0.002	mg/L	09/14/12	LK	SW6010
Filtration	Completed			09/13/12	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			09/13/12	X/X	SW7470
Mercury Digestion	Completed			09/13/12	X/X	SW7470
PCB Extraction	Completed			09/12/12	TB	SW3510C
Extraction for Pest (2 Liter)	Completed			09/12/12	TB/T	SW3510
Semi-Volatile Extraction	Completed			09/13/12	F/D	SW3520
Dissolved Metals Preparation	Completed			09/13/12	AG	SW846-3005
Total Metals Digestion	Completed			09/12/12	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1221	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1232	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1242	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1248	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1254	0.39	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1260	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1262	ND	0.10	ug/L	09/14/12	AW	608/ 8082
PCB-1268	ND	0.10	ug/L	09/14/12	AW	608/ 8082

QA/QC Surrogates

% DCBP	99		%	09/14/12	AW	30 - 150 %
% TCMX	85		%	09/14/12	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDE	ND	0.1	ug/L	09/14/12	MH	SW8081
4,4' -DDT	ND	0.1	ug/L	09/14/12	MH	SW8081
a-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081
Alachlor	ND	0.1	ug/L	09/14/12	MH	SW8081
Aldrin	ND	0.003	ug/L	09/14/12	MH	SW8081
b-BHC	ND	0.01	ug/L	09/14/12	MH	SW8081
Chlordane	ND	0.3	ug/L	09/14/12	MH	SW8081
d-BHC	ND	0.05	ug/L	09/14/12	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Dieldrin	ND	0.002	ug/L	09/14/12	MH	SW8081
Endosulfan I	ND	0.05	ug/L	09/14/12	MH	SW8081
Endosulfan II	ND	0.1	ug/L	09/14/12	MH	SW8081
Endosulfan Sulfate	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin Aldehyde	ND	0.1	ug/L	09/14/12	MH	SW8081
Endrin ketone	ND	0.1	ug/L	09/14/12	MH	SW8081
g-BHC (Lindane)	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor	ND	0.05	ug/L	09/14/12	MH	SW8081
Heptachlor epoxide	ND	0.05	ug/L	09/14/12	MH	SW8081
Methoxychlor	ND	0.2	ug/L	09/14/12	MH	SW8081
Toxaphene	ND	1.0	ug/L	09/14/12	MH	SW8081
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	120		%	09/14/12	MH	30 - 150 %
%TCMX (Surrogate Rec)	97		%	09/14/12	MH	30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	09/16/12	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Acetone	ND	25	ug/L	09/16/12	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	09/16/12	R/T	SW8260
Benzene	ND	0.70	ug/L	09/16/12	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Bromoform	ND	1.0	ug/L	09/16/12	R/T	SW8260

Client ID: DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	09/16/12	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloroform	ND	1.0	ug/L	09/16/12	R/T	SW8260
Chloromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	09/16/12	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	09/16/12	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	09/16/12	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/16/12	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
Naphthalene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
o-Xylene	ND	1.0	ug/L	09/16/12	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Styrene	ND	1.0	ug/L	09/16/12	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	09/16/12	R/T	SW8260
Toluene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/16/12	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/16/12	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	09/16/12	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	09/16/12	R/T	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	09/16/12	R/T	70 - 130 %
% Bromofluorobenzene	90		%	09/16/12	R/T	70 - 130 %
% Dibromofluoromethane	95		%	09/16/12	R/T	70 - 130 %
% Toluene-d8	96		%	09/16/12	R/T	70 - 130 %
<u>Semivolatiles</u>						
1,2,4-Trichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,2-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,3-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
1,4-Dichlorobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,6-Trichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	09/16/12	DD	SW8270
2,4-Dinitrophenol	ND	53	ug/L	09/16/12	DD	SW8270
2,4-Dinitrotoluene	ND	5.3	ug/L	09/16/12	DD	SW8270
2,6-Dinitrotoluene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Chloronaphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Chlorophenol	ND	11	ug/L	09/16/12	DD	SW8270
2-Methylnaphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	09/16/12	DD	SW8270
2-Nitroaniline	ND	53	ug/L	09/16/12	DD	SW8270
2-Nitrophenol	ND	11	ug/L	09/16/12	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	09/16/12	DD	SW8270
3,3'-Dichlorobenzidine	ND	53	ug/L	09/16/12	DD	SW8270
3-Nitroaniline	ND	53	ug/L	09/16/12	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	53	ug/L	09/16/12	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.3	ug/L	09/16/12	DD	SW8270
4-Chloro-3-methylphenol	ND	21	ug/L	09/16/12	DD	SW8270
4-Chloroaniline	ND	21	ug/L	09/16/12	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.3	ug/L	09/16/12	DD	SW8270
4-Nitroaniline	ND	21	ug/L	09/16/12	DD	SW8270
4-Nitrophenol	ND	53	ug/L	09/16/12	DD	SW8270
Acetophenone	ND	5.3	ug/L	09/16/12	DD	SW8270
Aniline	ND	11	ug/L	09/16/12	DD	SW8270
Anthracene	ND	5.3	ug/L	09/16/12	DD	SW8270
Azobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
Benzidine	ND	53	ug/L	09/16/12	DD	SW8270
Benzoic acid	ND	53	ug/L	09/16/12	DD	SW8270
Benzyl butyl phthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.3	ug/L	09/16/12	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.3	ug/L	09/16/12	DD	SW8270
Carbazole	ND	5.3	ug/L	09/16/12	DD	SW8270
Dibenzofuran	ND	5.3	ug/L	09/16/12	DD	SW8270
Diethyl phthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Dimethylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Di-n-butylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Di-n-octylphthalate	ND	5.3	ug/L	09/16/12	DD	SW8270
Fluoranthene	ND	5.3	ug/L	09/16/12	DD	SW8270
Fluorene	ND	5.3	ug/L	09/16/12	DD	SW8270
Hexachlorobutadiene	ND	5.3	ug/L	09/16/12	DD	SW8270
Hexachlorocyclopentadiene	ND	5.3	ug/L	09/16/12	DD	SW8270
Isophorone	ND	5.3	ug/L	09/16/12	DD	SW8270
Naphthalene	ND	5.3	ug/L	09/16/12	DD	SW8270
Nitrobenzene	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodimethylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
N-Nitrosodiphenylamine	ND	5.3	ug/L	09/16/12	DD	SW8270
Phenol	ND	11	ug/L	09/16/12	DD	SW8270
Pyrene	ND	5.3	ug/L	09/16/12	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	119		%	09/16/12	DD	15 - 130 %
% 2-Fluorobiphenyl	88		%	09/16/12	DD	40 - 140 %
% 2-Fluorophenol	92		%	09/16/12	DD	15 - 130 %
% Nitrobenzene-d5	100		%	09/16/12	DD	40 - 140 %
% Phenol-d5	90		%	09/16/12	DD	15 - 130 %
% Terphenyl-d14	106		%	09/16/12	DD	40 - 140 %
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	1.7	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Acenaphthylene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.042	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.2	ug/L	09/14/12	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	2	1.7	ug/L	09/14/12	DD	SW8270 (SIM)
Chrysene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.011	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.063	ug/L	09/14/12	DD	SW8270 (SIM)
Hexachloroethane	ND	2.5	ug/L	09/14/12	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	09/14/12	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.84	ug/L	09/14/12	DD	SW8270 (SIM)
Phenanthrene	ND	0.053	ug/L	09/14/12	DD	SW8270 (SIM)
Pyridine	ND	0.53	ug/L	09/14/12	DD	SW8270 (SIM)
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	119		%	09/14/12	DD	15 - 130 %
% 2-Fluorobiphenyl	88		%	09/14/12	DD	40 - 140 %
% 2-Fluorophenol	92		%	09/14/12	DD	15 - 130 %
% Nitrobenzene-d5	100		%	09/14/12	DD	40 - 140 %
% Phenol-d5	90		%	09/14/12	DD	15 - 130 %
% Terphenyl-d14	106		%	09/14/12	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.
 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:

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 25, 2012

Reviewed and Released by: Johanna Harrington, Project Manager



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QA/QC Report

September 25, 2012

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208937, QC Sample No: BC65792 (BC67367, BC67368)												
<u>ICP Metals - Dissolved</u>												
Aluminum	BRL	0.04	0.06	NC	93.7	96.3	2.7	91.6	79.0	14.8	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	98.5	99.3	0.8	100	101	1.0	75 - 125	20
Arsenic	BRL	<0.004	0.005	NC	97.3	98.3	1.0	98.4	98.7	0.3	75 - 125	20
Barium	BRL	0.016	0.016	0	97.6	97.9	0.3	98.2	100	1.8	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	99.9	100	0.1	99.8	102	2.2	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	94.8	96.5	1.8	96.1	97.7	1.7	75 - 125	20
Calcium	BRL	13.0	12.8	1.60	94.7	95.0	0.3	NC	NC	NC	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	95.3	96.2	0.9	97.1	97.9	0.8	75 - 125	20
Cobalt	BRL	<0.001	<0.001	NC	101	102	1.0	102	104	1.9	75 - 125	20
Copper	BRL	0.019	0.018	NC	96.4	97.4	1.0	97.4	100	2.6	75 - 125	20
Iron	BRL	<0.011	<0.011	NC	96.8	97.7	0.9	99.0	100	1.0	75 - 125	20
Lead	BRL	<0.002	0.006	NC	95.7	96.6	0.9	97.4	98.1	0.7	75 - 125	20
Magnesium	BRL	1.82	1.80	1.10	99.4	101	1.6	88.5	85.0	4.0	75 - 125	20
Manganese	BRL	0.012	0.011	8.70	95.9	97.8	2.0	97.1	98.8	1.7	75 - 125	20
Nickel	BRL	0.010	0.010	0	94.6	95.2	0.6	96.2	97.0	0.8	75 - 125	20
Potassium	BRL	1.6	1.6	0	97.3	96.2	1.1	101	104	2.9	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	92.8	93.3	0.5	92.8	94.9	2.2	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	91.6	91.5	0.1	64.4	84.0	26.4	75 - 125	20
Sodium	BRL	6.58	6.59	0.20	84.9	83.6	1.5	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	95.1	95.4	0.3	95.0	97.5	2.6	75 - 125	20
Zinc	BRL	0.140	0.137	2.20	98.3	99.2	0.9	101	102	1.0	75 - 125	20

QA/QC Batch 209142, QC Sample No: BC67475 (BC67365, BC67366)

ICP Metals - Dissolved

Aluminum	BRL	<0.01	<0.01	NC	93.9	93.7	0.2	20.5	25.5	21.7	75 - 125	20	m,r
Antimony	BRL	0.008	<0.005	NC	97.1	97.0	0.1	105	110	4.7	75 - 125	20	
Arsenic	BRL	0.007	<0.004	NC	97.1	96.7	0.4	109	114	4.5	75 - 125	20	
Barium	BRL	0.005	0.005	NC	98.6	98.0	0.6	90.4	95.6	5.6	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	98.3	98.1	0.2	94.6	99.8	5.3	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	99.8	98.8	1.0	98.7	104	5.2	75 - 125	20	
Calcium	BRL	323	319	1.20	99.9	97.1	2.8	NC	NC	NC	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	97.6	97.0	0.6	94.6	99.3	4.8	75 - 125	20	
Cobalt	BRL	<0.001	<0.001	NC	99.4	99.4	0.0	97.5	102	4.5	75 - 125	20	
Copper	BRL	<0.005	<0.005	NC	98.0	97.8	0.2	111	117	5.3	75 - 125	20	
Iron	BRL	<0.011	<0.011	NC	96.0	95.5	0.5	71.1	74.3	4.4	75 - 125	20	m
Lead	BRL	<0.002	<0.002	NC	98.4	97.7	0.7	94.8	99.7	5.0	75 - 125	20	
Magnesium	BRL	1080	1070	0.90	99.9	99.4	0.5	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.032	0.032	0	99.1	98.4	0.7	96.4	102	5.6	75 - 125	20	
Nickel	BRL	<0.001	<0.001	NC	97.5	97.1	0.4	89.9	94.7	5.2	75 - 125	20	
Potassium	BRL	339	338	0.30	91.0	91.7	0.8	NC	NC	NC	75 - 125	20	
Selenium	BRL	<0.011	<0.011	NC	94.7	94.8	0.1	104	108	3.8	75 - 125	20	
Silver	BRL	<0.001	<0.001	NC	94.4	93.9	0.5	115	120	4.3	75 - 125	20	

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Sodium	0.23	14300	14200	0.70	111	110	0.9	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	96.8	96.3	0.5	99.0	104	4.9	75 - 125	20
Zinc	BRL	0.036	0.030	18.2	102	101	1.0	110	115	4.4	75 - 125	20

QA/QC Batch 209132, QC Sample No: BC67486 (BC67365, BC67366, BC67367, BC67368)

ICP Metals - Aqueous

Aluminum	BRL	0.082	0.083	1.20	92.7	90.5	2.4	92.6	90.4	2.4	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	97.2	106	8.7	97.0	95.5	1.6	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	95.8	93.5	2.4	95.8	94.1	1.8	75 - 125	20
Barium	BRL	0.007	0.007	NC	97.6	94.7	3.0	96.7	95.6	1.1	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	97.4	94.7	2.8	96.9	95.8	1.1	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	97.5	94.7	2.9	96.8	95.4	1.5	75 - 125	20
Calcium	BRL	3.59	3.65	1.70	97.4	94.5	3.0	91.2	84.0	8.2	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	96.4	93.7	2.8	96.2	94.1	2.2	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	98.5	95.8	2.8	98.0	96.1	2.0	75 - 125	20
Copper	BRL	<0.001	<0.005	NC	97.4	94.6	2.9	97.5	95.6	2.0	75 - 125	20
Iron	BRL	0.329	0.340	3.30	94.8	92.4	2.6	95.6	92.8	3.0	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	96.4	93.6	2.9	95.7	93.7	2.1	75 - 125	20
Magnesium	BRL	0.59	0.60	1.70	98.7	95.8	3.0	96.8	95.0	1.9	75 - 125	20
Manganese	BRL	0.035	0.035	0	97.9	95.2	2.8	97.3	96.0	1.3	75 - 125	20
Nickel	BRL	0.003	0.003	NC	96.0	93.2	3.0	95.6	93.5	2.2	75 - 125	20
Potassium	0.4	1.2	1.2	0	108	108	0.0	103	105	1.9	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	97.4	94.6	2.9	96.5	94.3	2.3	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	94.6	91.8	3.0	93.9	92.2	1.8	75 - 125	20
Sodium	0.2	8.3	0.5	177	104	103	1.0	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	96.4	93.4	3.2	96.1	94.3	1.9	75 - 125	20
Zinc	BRL	0.006	0.006	NC	101	97.9	3.1	100	98.4	1.6	75 - 125	20

QA/QC Batch 209153, QC Sample No: BC67543 (BC67365, BC67366, BC67367, BC67368)

Mercury - Water	BRL	<0.0002	<0.0002	NC	97.6	94.7	3.0	94.4	94.2	0.2	70 - 130	20
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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 25, 2012

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 208932, QC Sample No: BC65177 (BC67365, BC67366, BC67367, BC67368)									
<u>Pesticides - Ground Water</u>									
4,4' -DDD	ND	79	76	3.9				40 - 140	20
4,4' -DDE	ND	80	75	6.5				40 - 140	20
4,4' -DDT	ND	72	68	5.7				40 - 140	20
a-BHC	ND	82	81	1.2				40 - 140	20
a-Chlordane	ND	77	73	5.3				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	66	63	4.7				40 - 140	20
b-BHC	ND	79	75	5.2				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	82	79	3.7				40 - 140	20
Dieldrin	ND	81	76	6.4				40 - 140	20
Endosulfan I	ND	76	72	5.4				40 - 140	20
Endosulfan II	ND	74	70	5.6				40 - 140	20
Endosulfan sulfate	ND	78	75	3.9				40 - 140	20
Endrin	ND	81	75	7.7				40 - 140	20
Endrin aldehyde	ND	91	87	4.5				40 - 140	20
Endrin ketone	ND	85	81	4.8				40 - 140	20
g-BHC	ND	81	79	2.5				40 - 140	20
g-Chlordane	ND	77	72	6.7				40 - 140	20
Heptachlor	ND	70	70	0.0				40 - 140	20
Heptachlor epoxide	ND	78	75	3.9				40 - 140	20
Methoxychlor	ND	84	80	4.9				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	85	80	75	6.5				30 - 150	20
% TCMX	78	78	75	3.9				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 209022, QC Sample No: BC66568 (BC67365, BC67366, BC67367, BC67368)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	83	77	7.5				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	81	71	13.2				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	88	74	67	9.9				30 - 150	20
% TCMX (Surrogate Rec)	75	79	73	7.9				30 - 150	20

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:									
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.									
QA/QC Batch 209445, QC Sample No: BC67061 (BC67365, BC67367, BC67368)									
<u>Volatiles - Ground Water</u>									
1,1,1,2-Tetrachloroethane	ND	111	111	0.0	109	113	3.6	70 - 130	30
1,1,1-Trichloroethane	ND	100	97	3.0	100	102	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	91	89	2.2	86	88	2.3	70 - 130	30
1,1,2-Trichloroethane	ND	95	95	0.0	93	95	2.1	70 - 130	30
1,1-Dichloroethane	ND	106	103	2.9	107	109	1.9	70 - 130	30
1,1-Dichloroethene	ND	112	108	3.6	109	114	4.5	70 - 130	30
1,1-Dichloropropene	ND	114	111	2.7	121	124	2.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	105	108	2.8	84	101	18.4	70 - 130	30
1,2,3-Trichloropropane	ND	97	100	3.0	96	99	3.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	105	104	1.0	90	102	12.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	107	104	2.8	102	107	4.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	107	109	1.9	98	105	6.9	70 - 130	30
1,2-Dibromoethane	ND	94	94	0.0	89	92	3.3	70 - 130	30
1,2-Dichlorobenzene	ND	105	101	3.9	99	103	4.0	70 - 130	30
1,2-Dichloroethane	ND	116	113	2.6	117	116	0.9	70 - 130	30
1,2-Dichloropropane	ND	93	94	1.1	91	93	2.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	105	101	3.9	101	107	5.8	70 - 130	30
1,3-Dichlorobenzene	ND	106	103	2.9	101	106	4.8	70 - 130	30
1,3-Dichloropropane	ND	96	96	0.0	92	96	4.3	70 - 130	30
1,4-Dichlorobenzene	ND	106	102	3.8	101	106	4.8	70 - 130	30
2,2-Dichloropropane	ND	24	24	0.0	<40	<40	NC	70 - 130	30
2-Chlorotoluene	ND	105	101	3.9	100	105	4.9	70 - 130	30
2-Hexanone	ND	80	71	11.9	65	76	15.6	70 - 130	30
2-Isopropyltoluene	ND	104	100	3.9	100	105	4.9	70 - 130	30
4-Chlorotoluene	ND	99	97	2.0	96	100	4.1	70 - 130	30
4-Methyl-2-pentanone	ND	91	86	5.6	84	90	6.9	70 - 130	30
Acetone	ND	78	75	3.9	79	81	2.5	70 - 130	30
Acrylonitrile	ND	98	93	5.2	100	102	2.0	70 - 130	30
Benzene	ND	115	113	1.8	121	123	1.6	70 - 130	30
Bromobenzene	ND	104	100	3.9	99	103	4.0	70 - 130	30
Bromochloromethane	ND	101	100	1.0	103	104	1.0	70 - 130	30
Bromodichloromethane	ND	103	100	3.0	98	102	4.0	70 - 130	30
Bromoform	ND	140	136	2.9	134	140	4.4	70 - 130	30
Bromomethane	ND	87	84	3.5	80	90	11.8	70 - 130	30
Carbon Disulfide	ND	103	99	4.0	102	105	2.9	70 - 130	30
Carbon tetrachloride	ND	119	114	4.3	127	130	2.3	70 - 130	30
Chlorobenzene	ND	105	103	1.9	103	106	2.9	70 - 130	30
Chloroethane	ND	110	108	1.8	108	106	1.9	70 - 130	30
Chloroform	ND	107	104	2.8	107	108	0.9	70 - 130	30
Chloromethane	ND	93	91	2.2	89	94	5.5	70 - 130	30
cis-1,2-Dichloroethene	ND	107	105	1.9	108	109	0.9	70 - 130	30
cis-1,3-Dichloropropene	ND	86	85	1.2	77	81	5.1	70 - 130	30
Dibromochloromethane	ND	115	113	1.8	109	115	5.4	70 - 130	30
Dibromomethane	ND	97	95	2.1	93	96	3.2	70 - 130	30
Dichlorodifluoromethane	ND	98	94	4.2	96	102	6.1	70 - 130	30
Ethylbenzene	ND	102	101	1.0	101	105	3.9	70 - 130	30
Hexachlorobutadiene	ND	102	98	4.0	94	104	10.1	70 - 130	30
Isopropylbenzene	ND	106	102	3.8	100	106	5.8	70 - 130	30

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
m&p-Xylene	ND	107	105	1.9	107	113	5.5	70 - 130	30
Methyl ethyl ketone	ND	89	92	3.3	96	88	8.7	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	91	90	1.1	96	97	1.0	70 - 130	30
Methylene chloride	ND	101	97	4.0	88	89	1.1	70 - 130	30
Naphthalene	ND	115	121	5.1	60	102	51.9	70 - 130	30
n-Butylbenzene	ND	105	101	3.9	98	106	7.8	70 - 130	30
n-Propylbenzene	ND	109	103	5.7	104	110	5.6	70 - 130	30
o-Xylene	ND	106	105	0.9	105	109	3.7	70 - 130	30
p-Isopropyltoluene	ND	108	104	3.8	103	110	6.6	70 - 130	30
sec-Butylbenzene	ND	102	98	4.0	98	104	5.9	70 - 130	30
Styrene	ND	106	106	0.0	105	109	3.7	70 - 130	30
tert-Butylbenzene	ND	105	99	5.9	101	107	5.8	70 - 130	30
Tetrachloroethene	ND	106	104	1.9	107	113	5.5	70 - 130	30
Tetrahydrofuran (THF)	ND	84	98	15.4	79	83	4.9	70 - 130	30
Toluene	ND	98	96	2.1	97	100	3.0	70 - 130	30
trans-1,2-Dichloroethene	ND	109	105	3.7	108	110	1.8	70 - 130	30
trans-1,3-Dichloropropene	ND	87	87	0.0	85	86	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	86	78	9.8	64	71	10.4	70 - 130	30
Trichloroethene	ND	102	100	2.0	100	104	3.9	70 - 130	30
Trichlorofluoromethane	ND	114	109	4.5	118	120	1.7	70 - 130	30
Trichlorotrifluoroethane	ND	103	98	5.0	103	108	4.7	70 - 130	30
Vinyl chloride	ND	92	90	2.2	86	93	7.8	70 - 130	30
% 1,2-dichlorobenzene-d4	97	99	98	1.0	98	98	0.0	70 - 130	30
% Bromofluorobenzene	91	95	96	1.0	96	95	1.0	70 - 130	30
% Dibromofluoromethane	97	96	95	1.0	95	94	1.1	70 - 130	30
% Toluene-d8	96	96	97	1.0	97	95	2.1	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

QA/QC Batch 209101, QC Sample No: BC67192 (BC67365, BC67366, BC67367, BC67368)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	87	82	5.9				30 - 130	20
1,2,4-Trichlorobenzene	ND	86	81	6.0				30 - 130	20
1,2-Dichlorobenzene	ND	84	79	6.1				30 - 130	20
1,3-Dichlorobenzene	ND	82	77	6.3				30 - 130	20
1,4-Dichlorobenzene	ND	84	79	6.1				30 - 130	20
2,4,5-Trichlorophenol	ND	94	90	4.3				30 - 130	20
2,4,6-Trichlorophenol	ND	97	90	7.5				30 - 130	20
2,4-Dichlorophenol	ND	86	82	4.8				30 - 130	20
2,4-Dimethylphenol	ND	49	47	4.2				30 - 130	20
2,4-Dinitrophenol	ND	51	53	3.8				30 - 130	20
2,4-Dinitrotoluene	ND	85	81	4.8				30 - 130	20
2,6-Dinitrotoluene	ND	88	83	5.8				30 - 130	20
2-Chloronaphthalene	ND	96	90	6.5				30 - 130	20
2-Chlorophenol	ND	81	76	6.4				30 - 130	20
2-Methylnaphthalene	ND	82	77	6.3				30 - 130	20
2-Methylphenol (o-cresol)	ND	82	77	6.3				30 - 130	20
2-Nitroaniline	ND	79	77	2.6				30 - 130	20
2-Nitrophenol	ND	81	79	2.5				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	79	76	3.9				30 - 130	20
3,3'-Dichlorobenzidine	ND	N/A	N/A	NC				30 - 130	20
3-Nitroaniline	ND	87	83	4.7				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	74	74	0.0				30 - 130	20

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4-Bromophenyl phenyl ether	ND	93	87	6.7				30 - 130	20
4-Chloro-3-methylphenol	ND	89	83	7.0				30 - 130	20
4-Chloroaniline	ND	33	33	0.0				30 - 130	20
4-Chlorophenyl phenyl ether	ND	95	89	6.5				30 - 130	20
4-Nitroaniline	ND	87	83	4.7				30 - 130	20
4-Nitrophenol	ND	66	64	3.1				30 - 130	20
Acenaphthene	ND	92	85	7.9				30 - 130	20
Acenaphthylene	ND	91	85	6.8				30 - 130	20
Acetophenone	ND	85	80	6.1				30 - 130	20
Aniline	ND	N/A	N/A	NC				30 - 130	20
Anthracene	ND	93	87	6.7				30 - 130	20
Benz(a)anthracene	ND	94	88	6.6				30 - 130	20
Benzidine	ND	N/A	N/A	NC				30 - 130	20
Benzo(a)pyrene	ND	86	81	6.0				30 - 130	20
Benzo(b)fluoranthene	ND	90	86	4.5				30 - 130	20
Benzo(ghi)perylene	ND	88	82	7.1				30 - 130	20
Benzo(k)fluoranthene	ND	104	99	4.9				30 - 130	20
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20
Benzyl butyl phthalate	ND	97	91	6.4				30 - 130	20
Bis(2-chloroethoxy)methane	ND	86	81	6.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	78	74	5.3				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	89	83	7.0				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	100	95	5.1				30 - 130	20
Carbazole	ND	124	112	10.2				30 - 130	20
Chrysene	ND	94	87	7.7				30 - 130	20
Dibenz(a,h)anthracene	ND	93	86	7.8				30 - 130	20
Dibenzofuran	ND	91	85	6.8				30 - 130	20
Diethyl phthalate	ND	100	93	7.3				30 - 130	20
Dimethylphthalate	ND	98	92	6.3				30 - 130	20
Di-n-butylphthalate	ND	107	101	5.8				30 - 130	20
Di-n-octylphthalate	ND	94	89	5.5				30 - 130	20
Fluoranthene	ND	95	89	6.5				30 - 130	20
Fluorene	ND	91	86	5.6				30 - 130	20
Hexachlorobenzene	ND	104	96	8.0				30 - 130	20
Hexachlorobutadiene	ND	89	83	7.0				30 - 130	20
Hexachlorocyclopentadiene	ND	47	48	2.1				30 - 130	20
Hexachloroethane	ND	88	81	8.3				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	90	84	6.9				30 - 130	20
Isophorone	ND	91	86	5.6				30 - 130	20
Naphthalene	ND	72	67	7.2				30 - 130	20
Nitrobenzene	ND	85	83	2.4				30 - 130	20
N-Nitrosodimethylamine	ND	75	71	5.5				30 - 130	20
N-Nitrosodi-n-propylamine	ND	85	80	6.1				30 - 130	20
N-Nitrosodiphenylamine	ND	95	90	5.4				30 - 130	20
Pentachloronitrobenzene	ND	101	95	6.1				30 - 130	20
Pentachlorophenol	ND	116	111	4.4				30 - 130	20
Phenanthrene	ND	97	91	6.4				30 - 130	20
Phenol	ND	75	71	5.5				30 - 130	20
Pyrene	ND	98	92	6.3				30 - 130	20
Pyridine	ND	31	26	17.5				30 - 130	20
% 2,4,6-Tribromophenol	88	104	99	4.9				30 - 130	20
% 2-Fluorobiphenyl	85	79	74	6.5				40 - 140	20
% 2-Fluorophenol	75	63	58	8.3				30 - 130	20

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	93	76	72	5.4				40 - 140	20
% Phenol-d5	76	62	59	5.0				30 - 130	20
% Terphenyl-d14	111	88	83	5.8				40 - 140	20

Comment:

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

QA/QC Batch 209634, QC Sample No: BC69174 (BC67366)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	121	110	9.5	109	109	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	107	92	15.1	101	98	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	95	91	4.3	89	88	1.1	70 - 130	30	
1,1,2-Trichloroethane	ND	104	101	2.9	97	97	0.0	70 - 130	30	
1,1-Dichloroethane	ND	111	98	12.4	107	101	5.8	70 - 130	30	
1,1-Dichloroethene	ND	113	100	12.2	107	102	4.8	70 - 130	30	
1,1-Dichloropropene	ND	118	102	14.5	113	110	2.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	119	108	9.7	96	107	10.8	70 - 130	30	
1,2,3-Trichloropropane	ND	102	96	6.1	93	94	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	111	102	8.5	93	99	6.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	107	96	10.8	91	92	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	116	109	6.2	103	105	1.9	70 - 130	30	
1,2-Dibromoethane	ND	102	98	4.0	97	95	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	106	99	6.8	97	96	1.0	70 - 130	30	
1,2-Dichloroethane	ND	122	116	5.0	125	119	4.9	70 - 130	30	
1,2-Dichloropropane	ND	103	94	9.1	93	91	2.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	105	92	13.2	89	90	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	109	99	9.6	94	95	1.1	70 - 130	30	
1,3-Dichloropropane	ND	104	96	8.0	92	92	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	109	99	9.6	101	101	0.0	70 - 130	30	
2,2-Dichloropropane	ND	28	24	15.4	<40	<40	NC	70 - 130	30	l,m
2-Chlorotoluene	ND	106	93	13.1	91	91	0.0	70 - 130	30	
2-Hexanone	ND	99	86	14.1	89	89	0.0	70 - 130	30	
2-Isopropyltoluene	ND	102	91	11.4	89	89	0.0	70 - 130	30	
4-Chlorotoluene	ND	101	90	11.5	89	90	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	103	96	7.0	102	98	4.0	70 - 130	30	
Acetone	ND	88	83	5.8	101	97	4.0	70 - 130	30	
Acrylonitrile	ND	113	102	10.2	107	98	8.8	70 - 130	30	
Benzene	ND	119	107	10.6	119	112	6.1	70 - 130	30	
Bromobenzene	ND	107	97	9.8	95	96	1.0	70 - 130	30	
Bromochloromethane	ND	113	102	10.2	108	103	4.7	70 - 130	30	
Bromodichloromethane	ND	111	103	7.5	104	102	1.9	70 - 130	30	
Bromoform	ND	>150	146	NC	144	143	0.7	70 - 130	30	l,m
Bromomethane	ND	74	65	12.9	<40	46	NC	70 - 130	30	l,m
Carbon Disulfide	ND	102	88	14.7	98	93	5.2	70 - 130	30	
Carbon tetrachloride	ND	127	109	15.3	119	117	1.7	70 - 130	30	
Chlorobenzene	ND	110	99	10.5	99	98	1.0	70 - 130	30	
Chloroethane	ND	110	96	13.6	110	99	10.5	70 - 130	30	
Chloroform	ND	115	102	12.0	111	107	3.7	70 - 130	30	
Chloromethane	ND	91	80	12.9	86	85	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	114	102	11.1	107	103	3.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	91	85	6.8	82	79	3.7	70 - 130	30	
Dibromochloromethane	ND	125	117	6.6	108	112	3.6	70 - 130	30	
Dibromomethane	ND	105	99	5.9	98	96	2.1	70 - 130	30	
Dichlorodifluoromethane	ND	99	84	16.4	88	91	3.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBC67365

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	107	94	12.9	96	95	1.0	70 - 130	30
Hexachlorobutadiene	ND	102	84	19.4	78	92	16.5	70 - 130	30
Isopropylbenzene	ND	103	90	13.5	86	88	2.3	70 - 130	30
m&p-Xylene	ND	112	98	13.3	99	99	0.0	70 - 130	30
Methyl ethyl ketone	ND	99	95	4.1	118	99	17.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	106	100	5.8	114	112	1.8	70 - 130	30
Methylene chloride	ND	104	97	7.0	103	98	5.0	70 - 130	30
Naphthalene	ND	122	115	5.9	73	105	36.0	70 - 130	30
n-Butylbenzene	ND	105	89	16.5	83	88	5.8	70 - 130	30
n-Propylbenzene	ND	107	94	12.9	87	90	3.4	70 - 130	30
o-Xylene	ND	111	99	11.4	100	100	0.0	70 - 130	30
p-Isopropyltoluene	ND	106	93	13.1	86	90	4.5	70 - 130	30
sec-Butylbenzene	ND	103	89	14.6	85	89	4.6	70 - 130	30
Styrene	ND	114	102	11.1	105	103	1.9	70 - 130	30
tert-Butylbenzene	ND	106	92	14.1	88	90	2.2	70 - 130	30
Tetrachloroethene	ND	111	97	13.5	96	98	2.1	70 - 130	30
Tetrahydrofuran (THF)	ND	99	98	1.0	95	94	1.1	70 - 130	30
Toluene	ND	105	94	11.1	97	94	3.1	70 - 130	30
trans-1,2-Dichloroethene	ND	112	99	12.3	108	101	6.7	70 - 130	30
trans-1,3-Dichloropropene	ND	94	89	5.5	88	85	3.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	85	77	9.9	60	60	0.0	70 - 130	30
Trichloroethene	ND	109	96	12.7	98	96	2.1	70 - 130	30
Trichlorofluoromethane	ND	117	99	16.7	104	102	1.9	70 - 130	30
Trichlorotrifluoroethane	ND	107	91	16.2	93	96	3.2	70 - 130	30
Vinyl chloride	ND	95	82	14.7	85	84	1.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	100	100	0.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	91	99	96	3.1	97	99	2.0	70 - 130	30
% Dibromofluoromethane	100	99	98	1.0	103	101	2.0	70 - 130	30
% Toluene-d8	96	97	97	0.0	98	97	1.0	70 - 130	30

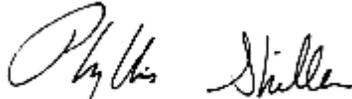
Comment:

A blank MS/MSD was analyzed with this batch.

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 25, 2012

Sample Criteria Exceedences Report

Requested Criteria: None

GBC67365 - 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.





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



NY Temperature Narration

September 25, 2012

SDG I.D.: GBC67365

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



Thursday, September 20, 2012

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

Project ID: 403 GREENWICH ST MANHATTAN
Sample ID#s: BC67369 - BC67371

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

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

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

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

Sincerely yours,

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 20, 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:
 Received by: SW
 Analyzed by: see "By" below

Date: 09/11/12 12:45
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67369
 Phoenix ID: BC67369

Project ID: 403 GREENWICH ST MANHATTAN
 Client ID: SG 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	09/14/12	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	09/14/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	09/14/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	09/14/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	09/14/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	09/14/12	KCA	TO15
1,2,4-Trimethylbenzene	0.8	0.204	3.93	1.00	09/14/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	09/14/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	09/14/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	09/14/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	09/14/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	09/14/12	KCA	TO15
1,3,5-Trimethylbenzene	0.29	0.204	1.42	1.00	09/14/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	09/14/12	KCA	TO15
1,3-Dichlorobenzene	0.37	0.166	2.22	1.00	09/14/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	09/14/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	09/14/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	09/14/12	KCA	TO15 1
4-Ethyltoluene	0.25	0.204	1.23	1.00	09/14/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	0.76	0.244	3.11	1.00	09/14/12	KCA	TO15
Acetone	3.78	0.421	8.97	1.00	09/14/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	09/14/12	KCA	TO15
Benzene	ND	0.313	ND	1.00	09/14/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	09/14/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	09/14/12	KCA	TO15

Client ID: SG 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	09/14/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	09/14/12	KCA	TO15
Carbon Disulfide	ND	0.321	ND	1.00	09/14/12	KCA	TO15
Carbon Tetrachloride	0.09	0.040	0.566	0.25	09/14/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	09/14/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	09/14/12	KCA	TO15
Chloroform	ND	0.205	ND	1.00	09/14/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	09/14/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	09/14/12	KCA	TO15 1
Cyclohexane	ND	0.291	ND	1.00	09/14/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	09/14/12	KCA	TO15
Dichlorodifluoromethane	0.46	0.202	2.27	1.00	09/14/12	KCA	TO15
Ethanol	30	0.531	56.5	1.00	09/14/12	KCA	TO15 B*
Ethyl acetate	ND	0.278	ND	1.00	09/14/12	KCA	TO15 1
Ethylbenzene	0.36	0.230	1.56	1.00	09/14/12	KCA	TO15
Heptane	ND	0.244	ND	1.00	09/14/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	09/14/12	KCA	TO15
Hexane	0.78	0.284	2.75	1.00	09/14/12	KCA	TO15
Isopropylalcohol	1.72	0.407	4.22	1.00	09/14/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	09/14/12	KCA	TO15
m,p-Xylene	1.43	0.230	6.20	1.00	09/14/12	KCA	TO15
Methyl Ethyl Ketone	1.13	0.339	3.33	1.00	09/14/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	09/14/12	KCA	TO15
Methylene Chloride	20.3	0.288	70.5	1.00	09/14/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
o-Xylene	0.55	0.230	2.39	1.00	09/14/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	09/14/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	09/14/12	KCA	TO15
Tetrachloroethene	0.06	0.037	0.407	0.25	09/14/12	KCA	TO15
Tetrahydrofuran	0.82	0.339	2.42	1.00	09/14/12	KCA	TO15 1
Toluene	0.74	0.266	2.79	1.00	09/14/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	09/14/12	KCA	TO15
Trichloroethene	ND	0.047	ND	0.25	09/14/12	KCA	TO15
Trichlorofluoromethane	0.27	0.178	1.52	1.00	09/14/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	09/14/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	09/14/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	105	%	105	%	09/14/12	KCA	TO15

Client ID: SG 1

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.

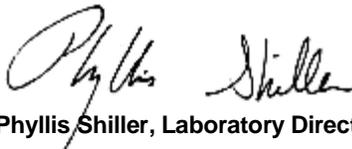
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 20, 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 20, 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:
 Received by: SW
 Analyzed by: see "By" below

Date: 09/11/12 12:15
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67369
 Phoenix ID: BC67370

Project ID: 403 GREENWICH ST MANHATTAN
 Client ID: SG 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	09/14/12	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	09/14/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	09/14/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	09/14/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	09/14/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	09/14/12	KCA	TO15
1,2,4-Trimethylbenzene	0.6	0.204	2.95	1.00	09/14/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	09/14/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	09/14/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	09/14/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	09/14/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	09/14/12	KCA	TO15
1,3,5-Trimethylbenzene	0.21	0.204	1.03	1.00	09/14/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	09/14/12	KCA	TO15
1,3-Dichlorobenzene	0.5	0.166	3.00	1.00	09/14/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	09/14/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	09/14/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	09/14/12	KCA	TO15 1
4-Ethyltoluene	ND	0.204	ND	1.00	09/14/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	0.58	0.244	2.37	1.00	09/14/12	KCA	TO15
Acetone	3.39	0.421	8.05	1.00	09/14/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	09/14/12	KCA	TO15
Benzene	ND	0.313	ND	1.00	09/14/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	09/14/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	09/14/12	KCA	TO15

Client ID: SG 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	09/14/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	09/14/12	KCA	TO15
Carbon Disulfide	0.39	0.321	1.21	1.00	09/14/12	KCA	TO15
Carbon Tetrachloride	0.09	0.040	0.566	0.25	09/14/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	09/14/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	09/14/12	KCA	TO15
Chloroform	0.34	0.205	1.66	1.00	09/14/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	09/14/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	09/14/12	KCA	TO15 1
Cyclohexane	ND	0.291	ND	1.00	09/14/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	09/14/12	KCA	TO15
Dichlorodifluoromethane	0.48	0.202	2.37	1.00	09/14/12	KCA	TO15
Ethanol	26.3	0.531	49.5	1.00	09/14/12	KCA	TO15 B*
Ethyl acetate	ND	0.278	ND	1.00	09/14/12	KCA	TO15 1
Ethylbenzene	0.32	0.230	1.39	1.00	09/14/12	KCA	TO15
Heptane	ND	0.244	ND	1.00	09/14/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	09/14/12	KCA	TO15
Hexane	0.43	0.284	1.51	1.00	09/14/12	KCA	TO15
Isopropylalcohol	1.48	0.407	3.64	1.00	09/14/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	09/14/12	KCA	TO15
m,p-Xylene	1.34	0.230	5.81	1.00	09/14/12	KCA	TO15
Methyl Ethyl Ketone	1.27	0.339	3.74	1.00	09/14/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	09/14/12	KCA	TO15
Methylene Chloride	1.75	0.288	6.08	1.00	09/14/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
o-Xylene	0.54	0.230	2.34	1.00	09/14/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	09/14/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	09/14/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	09/14/12	KCA	TO15
Tetrachloroethene	0.31	0.037	2.10	0.25	09/14/12	KCA	TO15
Tetrahydrofuran	2	0.339	5.89	1.00	09/14/12	KCA	TO15 1
Toluene	0.61	0.266	2.30	1.00	09/14/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	09/14/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	09/14/12	KCA	TO15
Trichloroethene	ND	0.047	ND	0.25	09/14/12	KCA	TO15
Trichlorofluoromethane	0.28	0.178	1.57	1.00	09/14/12	KCA	TO15
Trichlorotrifluoroethane	ND	0.130	ND	1.00	09/14/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	09/14/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	104	%	104	%	09/14/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
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B* = Present in blank, a bias is possible.

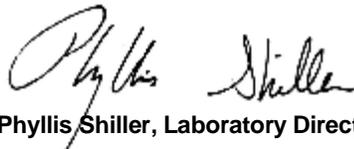
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 20, 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 20, 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:
 Received by: SW
 Analyzed by: see "By" below

Date: 09/11/12 13:24
 09/12/12 16:15

Laboratory Data

SDG ID: GBC67369
 Phoenix ID: BC67371

Project ID: 403 GREENWICH ST MANHATTAN
 Client ID: SG 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Volatiles (TO15)							
1,1,1,2-Tetrachloroethane	ND	0.146	ND	1.00	09/15/12	KCA	TO15 1
1,1,1-Trichloroethane	ND	0.183	ND	1.00	09/15/12	KCA	TO15
1,1,2,2-Tetrachloroethane	ND	0.146	ND	1.00	09/15/12	KCA	TO15
1,1,2-Trichloroethane	ND	0.183	ND	1.00	09/15/12	KCA	TO15
1,1-Dichloroethane	ND	0.247	ND	1.00	09/15/12	KCA	TO15
1,1-Dichloroethene	ND	0.252	ND	1.00	09/15/12	KCA	TO15
1,2,4-Trichlorobenzene	ND	0.135	ND	1.00	09/15/12	KCA	TO15
1,2,4-Trimethylbenzene	2.58	0.204	12.7	1.00	09/15/12	KCA	TO15
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	09/15/12	KCA	TO15
1,2-Dichlorobenzene	ND	0.166	ND	1.00	09/15/12	KCA	TO15
1,2-Dichloroethane	ND	0.247	ND	1.00	09/15/12	KCA	TO15
1,2-dichloropropane	ND	0.216	ND	1.00	09/15/12	KCA	TO15
1,2-Dichlorotetrafluoroethane	ND	0.143	ND	1.00	09/15/12	KCA	TO15
1,3,5-Trimethylbenzene	0.51	0.204	2.50	1.00	09/15/12	KCA	TO15
1,3-Butadiene	ND	0.452	ND	1.00	09/15/12	KCA	TO15
1,3-Dichlorobenzene	0.53	0.166	3.18	1.00	09/15/12	KCA	TO15
1,4-Dichlorobenzene	ND	0.166	ND	1.00	09/15/12	KCA	TO15
1,4-Dioxane	ND	0.278	ND	1.00	09/15/12	KCA	TO15
2-Hexanone(MBK)	ND	0.244	ND	1.00	09/15/12	KCA	TO15 1
4-Ethyltoluene	0.43	0.204	2.11	1.00	09/15/12	KCA	TO15 1
4-Isopropyltoluene	ND	0.182	ND	1.00	09/15/12	KCA	TO15 1
4-Methyl-2-pentanone(MIBK)	1.31	0.244	5.36	1.00	09/15/12	KCA	TO15
Acetone	7.09	0.421	16.8	1.00	09/15/12	KCA	TO15
Acrylonitrile	ND	0.461	ND	1.00	09/15/12	KCA	TO15
Benzene	0.65	0.313	2.08	1.00	09/15/12	KCA	TO15
Benzyl chloride	ND	0.193	ND	1.00	09/15/12	KCA	TO15
Bromodichloromethane	ND	0.149	ND	1.00	09/15/12	KCA	TO15

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference
Bromoform	ND	0.097	ND	1.00	09/15/12	KCA	TO15
Bromomethane	ND	0.258	ND	1.00	09/15/12	KCA	TO15
Carbon Disulfide	2.48	0.321	7.72	1.00	09/15/12	KCA	TO15
Carbon Tetrachloride	0.13	0.040	0.817	0.25	09/15/12	KCA	TO15
Chlorobenzene	ND	0.217	ND	1.00	09/15/12	KCA	TO15
Chloroethane	ND	0.379	ND	1.00	09/15/12	KCA	TO15
Chloroform	2.61	0.205	12.7	1.00	09/15/12	KCA	TO15
Chloromethane	ND	0.484	ND	1.00	09/15/12	KCA	TO15
Cis-1,2-Dichloroethene	ND	0.252	ND	1.00	09/15/12	KCA	TO15
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	09/15/12	KCA	TO15 1
Cyclohexane	0.89	0.291	3.06	1.00	09/15/12	KCA	TO15
Dibromochloromethane	ND	0.117	ND	1.00	09/15/12	KCA	TO15
Dichlorodifluoromethane	0.89	0.202	4.40	1.00	09/15/12	KCA	TO15
Ethanol	40	0.531	75.3	1.00	09/15/12	KCA	TO15 B*
Ethyl acetate	ND	0.278	ND	1.00	09/15/12	KCA	TO15 1
Ethylbenzene	0.87	0.230	3.78	1.00	09/15/12	KCA	TO15
Heptane	0.44	0.244	1.80	1.00	09/15/12	KCA	TO15
Hexachlorobutadiene	ND	0.094	ND	1.00	09/15/12	KCA	TO15
Hexane	0.81	0.284	2.85	1.00	09/15/12	KCA	TO15
Isopropylalcohol	3.09	0.407	7.59	1.00	09/15/12	KCA	TO15
Isopropylbenzene	ND	0.204	ND	1.00	09/15/12	KCA	TO15
m,p-Xylene	3.36	0.230	14.6	1.00	09/15/12	KCA	TO15
Methyl Ethyl Ketone	3.35	0.339	9.87	1.00	09/15/12	KCA	TO15
Methyl tert-butyl ether(MTBE)	ND	0.278	ND	1.00	09/15/12	KCA	TO15
Methylene Chloride	8.64	0.288	30.0	1.00	09/15/12	KCA	TO15 B*
n-Butylbenzene	ND	0.182	ND	1.00	09/15/12	KCA	TO15 1
o-Xylene	1.36	0.230	5.90	1.00	09/15/12	KCA	TO15
Propylene	ND	0.581	ND	1.00	09/15/12	KCA	TO15 1
sec-Butylbenzene	ND	0.182	ND	1.00	09/15/12	KCA	TO15 1
Styrene	ND	0.235	ND	1.00	09/15/12	KCA	TO15
Tetrachloroethene	1.53	0.037	10.4	0.25	09/15/12	KCA	TO15
Tetrahydrofuran	7.18	0.339	21.2	1.00	09/15/12	KCA	TO15 1
Toluene	2.57	0.266	9.68	1.00	09/15/12	KCA	TO15
Trans-1,2-Dichloroethene	ND	0.252	ND	1.00	09/15/12	KCA	TO15
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	09/15/12	KCA	TO15
Trichloroethene	0.29	0.047	1.56	0.25	09/15/12	KCA	TO15
Trichlorofluoromethane	0.53	0.178	2.98	1.00	09/15/12	KCA	TO15
Trichlorotrifluoroethane	0.16	0.130	1.22	1.00	09/15/12	KCA	TO15
Vinyl Chloride	ND	0.098	ND	0.25	09/15/12	KCA	TO15
<u>QA/QC Surrogates</u>							
% Bromofluorobenzene	106	%	106	%	09/15/12	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.

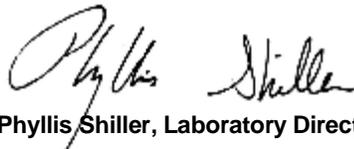
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected

BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

September 20, 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 20, 2012

QA/QC Data

SDG I.D.: GBC67369

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 209528, QC Sample No: BC67369 (BC67369, BC67370, BC67371)										
Volatiles										
1,1,1,2-Tetrachloroethane	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	120	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	105	3.93	3.93	0.8	0.8	0.0	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	104	1.42	1.42	0.29	0.29	0.0	70 - 130	20
1,3-Butadiene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	98	2.22	2.22	0.37	0.37	0.0	70 - 130	20
1,4-Dichlorobenzene	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	106	1.23	1.23	0.25	0.25	0.0	70 - 130	20
4-Isopropyltoluene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	106	3.11	3.11	0.76	0.76	0.0	70 - 130	20
Acetone	ND	ND	101	8.97	7.19	3.78	3.03	22.0	70 - 130	20
Acrylonitrile	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Benzyl chloride	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	117	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	100	0.566	0.566	0.09	0.09	0.0	70 - 130	20
Chlorobenzene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	103	2.27	2.37	0.46	0.48	4.3	70 - 130	20
Ethanol	5.4	10.2	82	56.5	61.6	30	32.7	8.6	70 - 130	20

QA/QC Data

SDG I.D.: GBC67369

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	112	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	107	1.56	1.56	0.36	0.36	0.0	70 - 130	20
Heptane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Hexachlorobutadiene	ND	ND	121	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	97	2.75	1.66	0.78	0.47	49.6	70 - 130	20
Isopropylalcohol	ND	ND	91	4.22	3.78	1.72	1.54	11.0	70 - 130	20
Isopropylbenzene	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	ND	105	6.20	6.25	1.43	1.44	0.7	70 - 130	20
Methyl Ethyl Ketone	ND	ND	108	3.33	3.39	1.13	1.15	1.8	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	11	38.2	78	70.5	11.7	20.3	3.36	143.2	70 - 130	20
n-Butylbenzene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	ND	106	2.39	2.39	0.55	0.55	0.0	70 - 130	20
Propylene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
sec-Butylbenzene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	101	0.407	0.407	0.06	0.06	0.0	70 - 130	20
Tetrahydrofuran	ND	ND	112	2.42	2.62	0.82	0.89	8.2	70 - 130	20
Toluene	ND	ND	103	2.79	2.60	0.74	0.69	7.0	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	96	1.52	1.46	0.27	0.26	3.8	70 - 130	20
Trichlorotrifluoroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	103	103	101	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 20, 2012

Sample Criteria Exceedences Report

Requested Criteria: None

GBC67369 - 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.





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



NY Temperature Narration

September 20, 2012

SDG I.D.: GBC67369

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



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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

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

P.O. # _____ Page 1 of 1
 Data Delivery: _____
 Fax #: _____
 Email: CSOS1K@elexny.com
 Phone #: _____

Report to: _____
 Customer: EBC
 Address: 1808 Middle Country Road
Ridge, NY 11961

Invoice to: EBC
 Project Name: 403 GREENWICH ST, MANHATTAN
 Criteria Requested: Deliverable: RCP
 MCP
 State where samples collected: NY

Sampled by: D. Mosca
 State where samples collected: _____

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	THIS SECTION FOR LAB USE ONLY				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 (C) Composite (C)	TO-14	TO-15
				Outgoing Canister Pressure (°Hg)	Incoming Canister Pressure (°Hg)	Flow Regulator ID #	Flow Controller ID #											
<u>67269</u>	<u>SG1</u>	<u>11292</u>	<u>6L</u>	<u>-30</u>	<u>3</u>	<u>4499</u>	<u>39.2</u>	<u>1030</u>	<u>1245</u>	<u>9-11-12</u>	<u>-30</u>	<u>-7</u>	<u>X</u>			<u>X</u>		
<u>67570</u>	<u>SG2</u>	<u>463</u>	<u>↓</u>	<u>↓</u>	<u>6</u>	<u>3412</u>	<u>40.1</u>	<u>1034</u>	<u>1215</u>	<u>9-11-12</u>	<u>-28</u>	<u>-7</u>				<u>X</u>		
<u>* 67571</u>	<u>SG3</u>	<u>357</u>	<u>↓</u>	<u>↓</u>	<u>4</u>	<u>4960</u>	<u>40.5</u>	<u>1056</u>	<u>1110</u>	<u>9-11-12</u>	<u>-27</u>	<u>0</u>						
<u>67571</u>	<u>SG3</u>	<u>215</u>	<u>6L</u>	<u>-30</u>	<u>4</u>	<u>5350</u>		<u>1130</u>	<u>1324</u>	<u>9-11-12</u>	<u>-30</u>	<u>-6</u>				<u>X</u>		

Relinquished by: [Signature] Date: 9-12-12
 Accepted by: [Signature] Date: 9-12-12
 Data Format: Excel Equis GISKey
 PDF Other: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
E-SITE PRICING
* CANISTER EMPTIED IN LESS THAN AN HOUR. CHECK REGULATOR. DO NOT ANALYZE

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: _____