REMEDIAL INVESTIGATION WORK PLAN

Chatsworth Coal and Supply Site
North Avenue and 2101 Palmer Avenue
Larchmont, New York 10538

Tax Map No.: 6-606-494.2 and 6-601-486.1

Site No.: C360132

December 16, 2013
Revision 1: February 5, 2014

Prepared for:

Wilder Balter Partners, Inc
570 Taxter Road
Elmsford, New York 10523

Prepared by:

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CERTIFICATION

I Richard D. Galli certify that I am currently a NYS registered professional engineer or Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

[signature]

Richard D. Galli
NYS PE No.

12/16/13
Date

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1.0 INTRODUCTION

On October 24, 2013, the Former Chatsworth Coal and Supply Site located at North Avenue and 2101 Palmer Avenue, in Larchmont New York (the subject Site) was recently accepted into the NYS Department of Environmental Conservations Brownfield Cleanup Program as Site No. C360132. The Subject Site consists of two underutilized adjacent tax parcels, each parcel over 0.7 acres in size, located just south of the Metro North Railway, and has been approved for the construction of an affordable housing 51 unit Condominium Complex with on-grade parking below. A Site Location Map is included as **Figure 1**.

The Site has historically been utilized for commercial purposes and contains the remains of at least one former railway spur. There are no buildings on the Site, only concrete and asphalt pavements, and storage of a few vehicles. Results from previous investigations confirmed the presence of Heavy Metals, Semi-Volatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and the Pesticide 4-4'-DDT, in the soil and groundwater at the Site.

This Remedial Investigation Work Plan (RIWP) has been prepared by Galli Engineering, P.C. (Galli) on behalf of WB Pinebrook Associates, to further evaluate and delineate the nature and extent of sub-surface contamination at the Site.

1.1 Coordination With Other Documents

This RIWP is to be used and implemented in conjunction with the Quality Assurance Project Plan (QAPP), the Health and Safety Plan (HASP), and the Citizen Participation Plan (CPP), each included as appendices to this document.

RIWP – Briefly describes the setting and history; the number and type of soil, groundwater and soil vapor samples to be collected and the purpose for those; methods for soil borings, test pits, soil vapor probes and monitoring well construction; sample handling; and description of contents of the subsequent Remedial Investigation Report (RIR).

Quality Assurance Project Plan (QAPP) – The QAPP included in **Appendix A** describes detailed measures to be taken in the field and in the laboratory to ensure that samples collected during the investigation are collected, handled, and analyzed in an appropriate manner; and to ensure that all environmental data generated for the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation are scientifically valid, representative, and of known and acceptable precision and accuracy.

Health and Safety Plan (HASP) – The HASP included in **Appendix B** describes the type of contaminants expected to be present; how to screen for them; and what personnel protective measures to implement at designated thresholds. Galli will conduct air monitoring of the breathing zone periodically during all drilling and sampling activities to assure proper health and safety protection for the work team. Initially, Gall will conduct ambient air monitoring within the work area. We will monitor VOCs with a Photoionization Detector (PID), MultiRAE® Plus PGM-

50 or equivalent, in accordance with the HASP. If air monitoring during intrusive operations identifies the presence of VOCs, we will follow the guidelines outlined in the HASP, regarding action levels, permissible exposure, engineering controls, and personal protective equipment. If the VOCs action level is exceeded, work will cease and the work location will be evacuated. Monitoring will be continued until the levels drops to safe limits. At that time, work can resume with continued monitoring. If high levels persist, field activities will be halted and the work relocated to another area. If dust emissions are observed exceeding action levels per DER-10, Appendix 1A and 1B, work will stop and dust suppression measures will be used.

<u>Citizen Participation Plan (CPP)</u> – The CPP, which has been approved by NYSDEC and is in the repository, describes how the project team will communicate and involve the local community, concerned citizens and local representatives about the nature and progress of the project.

<u>Community Air Monitoring Plan (CAMP)</u> – The CAMP included in **Appendix C** describes the monitoring of dust and volatile organics in the air to prevent off site release. Monitoring will be conducted during all contaminated soil excavation, handling or loading. In order to be protective of human health we will conduct community air monitoring in compliance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP).

During CAMP implementation, Galli will conduct monitoring for VOCs during ground intrusive activities (i.e., soil boring and monitoring well installation, soil excavation and soil load out). We will measure upwind concentrations at the start of each workday, and periodically thereafter, to establish background concentrations. Galli will monitor VOCs at the downwind perimeter of the work zone, which will be determined at the start of each work day depending on the wind direction. Monitoring will be conducted with a PID equipped with a 10.6 eV lamp. Dust emissions will be monitored using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level (e.g., DustTrak). If dust emissions are observed above action levels per DER-10, Appendix 1A and 1B, work will stop and dust suppression measures will be used. Community air monitoring will be conducted until it is determined that the site is not a source of organic vapors or contaminated fugitive dust.

2.0 BACKGROUND

As mentioned previously, the Subject Site is a currently underutilized parcel located immediately south of the Metro North Railway, and contains the remains of at least one rail spur. Its only use has been for the parking of certain vehicles. Historical use of the property has been mainly commercial, and more recently included the Chatsworth Coal and Supply Company and use as a former Railroad Property. Although there are remains of concrete and asphalt pavements, there are no buildings located on the property and the Site is currently unoccupied except for a few vehicles.

Several previous environmental investigations have been performed on the northeastern portion of the Site as a result of the discovery of a petroleum release on the groundwater table reported on September 23, 2010 at an adjacent property known as 20 North Avenue. The petroleum release discovered on this Site, was subsequently determined to be migrating from the adjacent 20 North Avenue parcel now or formerly owned by Robert V. George, and the northeastern portion the Site was assigned Spill Number 1006787. Upon NYSDEC approval of a Remedial Work Plan, in October 2011 HydroEnvironmental Solutions (HES) performed some remediation of the impacted areas and based upon their Spill Closure Report, the NYSDEC formally closed Spill No. 1006787.

After a technical review of the findings of the remedial activities performed, the NYSDEC reopened the spill due to the presence of semi-volatile organic compounds (SVOCs) and, to a lesser extent, the metals Chromium and Barium, detected in soil/fill samples utilized to backfill the remediated area. These constituents were found to be in excess of CP-51 Soil Cleanup Objectives (SCOs).

During April 2012, Tectonic Engineering & Surveying Consultants P.C. on behalf of the applicant performed four (4) additional soil borings within the previously remediated area at the Site, as part of a post remediation quality assurance Site Investigation Report (SIR). The results of soil sampling performed at these locations confirmed the presence of several SVOCs in excess of CP-51 SCLs.

Based upon the above findings, the NYSDEC has required that the previously remediated spill area must be remediated again. The in-place soil utilized to backfill the excavation must be removed and replaced with certified clean fill. Due to the shallow depth to water at the Site, the removal of the contaminated fill will also require dewatering of contaminated groundwater. Therefore; replacement of several dewatering wells, reconnection of the piping manifold, obtaining dewatering pumps, settling tank and carbon treatment units, will be required to handle groundwater prior to this remediation work. This work will be discussed in the Remedial Action Work Plan (RAWP), which is currently being prepared, and will be submitted under a separate cover.

2.1 Supplemental Investigation - September 2103

A Supplemental Phase II Site Assessment was conducted at the subject Site on September 24th and 25th, 2013, in order to delineate the Site-wide contamination outside of the spill area on the northeastern portion of the Site A total of ten (10) soil borings were performed at the subject property and were designated B-1 through B-10. See Figure 2, Sampling Location Plan. These soil borings were advanced using a track mounted Geoprobe unit the depth that refusal was met. The majority of the borings were completed at a depth of approximately ten (10) feet below grade with the deepest boring (B-1) reaching refusal at a maximum depth of fourteen (14) feet below grade.

This investigation focused on three areas within the Site;

- The westernmost section of the Site, which lies within the footprint of one of the two proposed buildings. In this area, four soil borings were performed (B-1 through B-4) and one temporary well was set at boring location B-1.
- The east-central portion of the Site, which will be primarily utilized for parking but is also located adjacent to second building. In this area, six (6) soil borings were performed (B-5 through B-10) and three (3) temporary wells were set at select boring locations B-6, B-8, and B-10.
- In the south central portion of the Site, a fairly significant rock outcrop exists, which will be removed during the first stage of construction for the affordable housing complex. Three (3) Overburden Soil Samples were collected along the top of the rock outcrop for analysis of; total Metals, PCBs, Pesticides, Herbicides, VOCs and SVOCs. Once the rock outcrop is removed, this area will be utilized as a roadway with parking stalls for the complex.

These sampling locations are shown on **Figure 2,** Sampling Location Plan.

Sampling Procedures

Based upon the field observations including staining and/or petroleum odors one soil sample was collected from each borehole, from the interval showing the greatest potential for contamination. Each soil sample was immediately placed into new sampling bottles for analysis of; total Metals, PCBs, Pesticides, Herbicides, VOCs and SVOCs.

Upon completion of the soil borings, temporary monitoring wells were installed at four (4) of the deeper boring locations (B-1, B-6, B-8, and B-10). The temporary wells were constructed of 1-inch schedule 40 PVC piping with 0.020 slot well screen, and were gravel packed with #2 Morie gravel. Total depth of the wells ranged from approximately 10 feet at B-6, B-8 and B-10, to 14 feet at B-1.

After installation, the wells were allowed to equilibrate overnight and samples were collected the following day. Prior to sample collection, each well was gauged for the presence or absence of free-product and depth to water. Then, using a dedicated disposable bailer, several well volumes were removed from each well prior to sample collection. Groundwater samples were then collected for analysis of; total Metals, PCBs, Pesticides, Herbicides, VOCs, and SVOCs.

2.1.1 September 2013 – Soil Sampling Results

Soil sampling results were compared against the New York Department of Environmental Conservation (NYSDEC) Environmental Remediation Subpart 375-6.8, Track 1 Unrestricted Use and Track 2 Restricted Residential Use Soil Cleanup Objectives (SCOs). The soil sampling laboratory results for the sampling conducted at the Site are discussed below, and summarized in **Tables 1 through 4,** and the laboratory results are provided in **Appendix D.**

Volatiles

VOCs were detected above Track 1 Unrestricted Use SCOs in soil samples from B-4 and B-5. Tetrachloroethene at a concentration of 2,400 ug/Kg, was detected above the reporting limit in B-4. The sample from B-5 reported concentrations of 1,2,4-Trimethylbenze at and Ethylbenzene above Track 1 Unrestricted Use SCOs.

Semi-Volatiles

Several SVOCs were detected above Track 2 Residential Use SCOs in borings B-1, B-4, B-6 and B-7. Many of those SVOCs were two to four times over the Track 2 SCOs.

Metals

Fairly significant metals concentrations were detected in excess of Track 2 Residential Use SCOs in Soil Boring B-1. (Arsenic = 17 mg/Kg, Cadmium = 3.19 ug/Kg, & Lead = 477 ug/Kg.)

Metals Concentrations including; Arsenic, Copper, Lead, Nickel and Zinc, above Track 1 Residential Use SCOs in B-4, B-6, B-7 and B-9.

PCBs

No PCBs were detected above the laboratory reporting limit in any of the soil samples.

Pesticides

The pesticide 4-4'-DDT was detected at a concentration of 9.6 ug/Kg in soil boring B-4, which is above the Track 1 Unrestricted Use SCO of 3.3 ug/Kg.

Chlordane was detected in soil from B-5 at a concentration of 290 ug/Kg, however; no SCO exists for that compound.

No other pesticides were detected in any of the other soil samples.

2.1.2 September 2013 – Groundwater Sampling Results

Groundwater samples were collected from temporary wells installed in borings B-6, B-8 and B-10. A groundwater sample could not be obtained from Boring B-1, as the temporary well was dry. The groundwater sampling results have been compared to the NYS Part 703 Standards for a Groundwater Source of Drinking Water (Type GA) and are summarized below. A complete summary of all groundwater sampling results can be found in **Tables 5 through 8**, and the laboratory results are provided in **Appendix D.**

Volatiles

The compound tetrachloroethene was detected in the groundwater sample from B-10 (23 ug/L) in excess of the guidance value of 5 ug/L.

Several VOCs were also identified slightly above the guidance values in the groundwater sample from B-6.

Semi-Volatiles

Two SVOC compounds were detected above groundwater standards in B-6. No other SVOCs were identified above laboratory reporting limits in any of the other samples.

Metals

Several Total Dissolved Metals concentrations were identified above class GA groundwater limits in all three of the groundwater samples.

PCBs

No PCBs were detected above the laboratory reporting limit in any of the groundwater samples.

Pesticides

The pesticide Chlordane was detected in excess of standards in groundwater samples from B-6 and B-10.

2.1.3 September 2013 – Rock Outcrop Overburden Soil Sampling Results

On September 26, 2013, a geologist from Galli Engineering, P.C., collected three (3) Overburden Soil Samples along the top of the rock outcrop located in the south-central portion of the Site. Each sample was obtained by compositing an area approximately one foot in diameter and less than two inches in depth. The results are summarized below and provided in **Tables 9 through 12**, and the results are provided in **Appendix D.**

Metals

All three samples contained Metals concentrations above Track 1 Unrestricted Use SCOs. Samples RC-1 and RC-2 also contained Metals concentrations above Track 2 Residential Use SCOs.

PCBs

PCB-1260 was detected in sample RC-1 at a concentration of 110 ug/Kg, which is in excess of the Track 1 SCO of 100 ug/Kg. No other PCBs were detected above Track 1 SCOs in any of the soil samples.

Pesticides

Pesticides were detected above Track 1 Unrestricted Use SCOs in all three soil samples. However, no samples contained pesticides above Track 2 SCOs.

Herbicides

No herbicides were detected above the laboratory reporting limit in any of these samples.

VOCs

No VOCs were detected above the laboratory reporting limit in any of the samples.

SVOCs

The SVOC Benzo(b)fluoranthene was detected above Track 2 Residential Use SCOs in all three samples. Crysene was also detected at or above Track 2 SCO's in samples RC-1 and RC-2. No other SVOCs were detected above SCOs in any of the samples.

Since the soil that is present on this natural rock outcrop was naturally deposited over time, the only theory that Galli has as to the origin of this contamination soil deposit is from former Site operations and/or soot deposition from a power plant that is present across the Metro North Railroad tracks to the east of the Site.

3.0 PROPOSED SCOPE OF WORK

After a review of the data obtained during the September 2013 Supplemental Phase II Site Investigation, the NYS Department of Environmental Conservation (DEC) requested some additional sampling and analysis be performed to further delineate the soil and groundwater contamination identified at the Site. Based upon recommendations from the DEC project manager, Galli Engineering, P.C., proposes the following work plan;

1) Perform six (6) additional soil borings at the Site to a total depth of 15 feet, or bedrock/refusal, whichever occurs first. The proposed locations marked as the Proposed Soil Borings/Monitoring Well, are included on **Figure 2,** the Sampling Location Plan.
2) Collect five (5) surface soil samples (~0-2" below land surface) at proposed locations P11, P12, P14, P15 and P16.
3) Collect one soil sample from each proposed soil boring location, (maximum of 6 samples) from the interval showing the greatest potential for contamination, based upon the field observations including staining and/or petroleum odors.
4) Submit all soil samples to a NYS ELAP Certified laboratory for analysis of; total Metals, Hexavalent Chromium, PCBs, Pesticides, Herbicides, VOCs and SVOCs.
5) Place 1" schedule-40 PVC temporary monitoring wells at proposed locations P11, P14 and P16. If groundwater is not encountered at any of these select locations, attempts will be made to install the temporary wells at an alternative boring location.
6) Install 8 below grade temporary Soil Vapor Implants at a depth of approximately 3-4 feet below grade, for sampling and analysis of VOCs by EPA Method TO-15, based on the proposed locations included on **Figure 2**.
7) After allowing the monitoring wells to set for a minimum of 24 hours, the temporary monitoring wells are gauged for depth to water and the presence or absence of free phase petroleum, and the measurements recorded.
8) Purge the monitoring wells to remove any excess sediment or debris and to insure collection of a representative groundwater sample from the aquifer.
9) Collect three (3) groundwater samples from the temporary wells for laboratory analysis of; total Metals (filtered and unfiltered by the lab), PCBs, Pesticides, Herbicides, VOCs and SVOCs.

10) Collect samples from the eight (8) Soil Vapor points for analysis of VOCs by EPA Method TO-15, over a minimum period of 2 hours, at a flow rate not to exceed 0.20 liters per minute.

11) Collect two Ambient Air Samples from opposite sides of the Site, for comparison purposes, concurrently with the collection of the Soil Vapor Samples. The Ambient Air Samples will also be collected at the same rate, and time frame as the Soil Vapor Samples, and also submitted for laboratory analysis of VOCs by EPA Method TO-15.

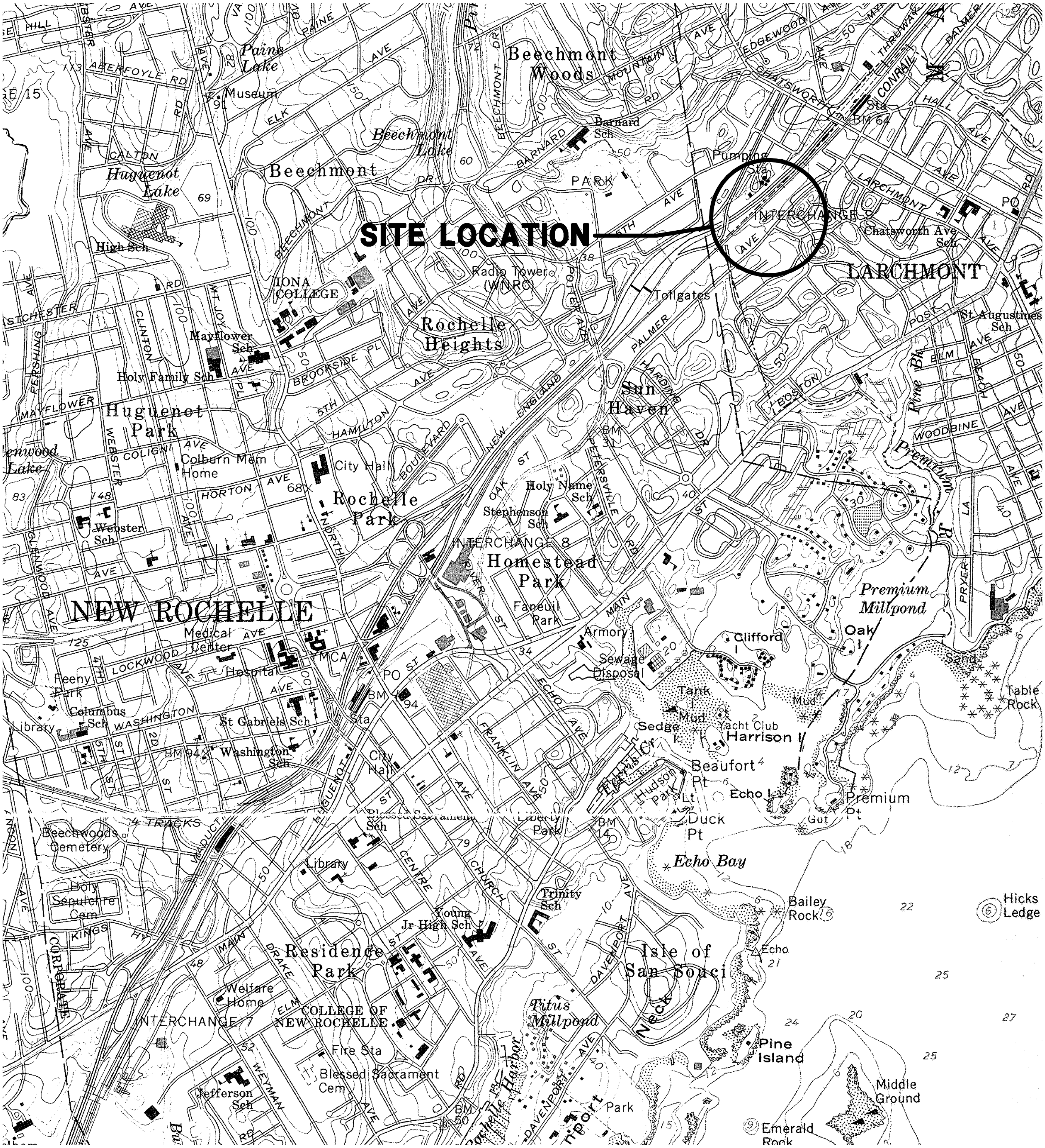
12) Based on the Site's location in a heavily urbanized area that contains minimal wildlife and plant species, a Fish and Wildlife Impact Assessment will not be performed.

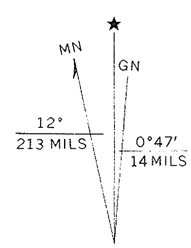
13) A Qualitative Human Health Exposure Assessment (QHHEA) of the Site will be performed in accordance with DER-10, Technical Guidance for Site Investigation and Remediation, Section 3.3(c)4. This assessment will consist of characterizing the exposure setting (including the physical environment and potentially exposed human populations), identifying exposure pathways, and evaluating contaminant fate and transport.'

4.0 REMEDIAL INVESTIGATION REPORTING

Once the new laboratory sampling data has been received, Galli Engineering will summarize and present the data in the Remedial Investigation Report (RIR). The completed RIR will be submitted to the DEC for their review while Galli Engineering begins to prepare the Remedial Action Work Plan (RAWP), to address the soil and groundwater contamination present at the Site. The RAWP will compare the sampling results to NYS Standards, and evaluate a minimum of 3 alternatives, including the No Action and Track 1 Unrestricted Use alternatives, to accomplish Site remediation for the proposed residential use of the Site.

FIGURES





UTM GRID AND 1979 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

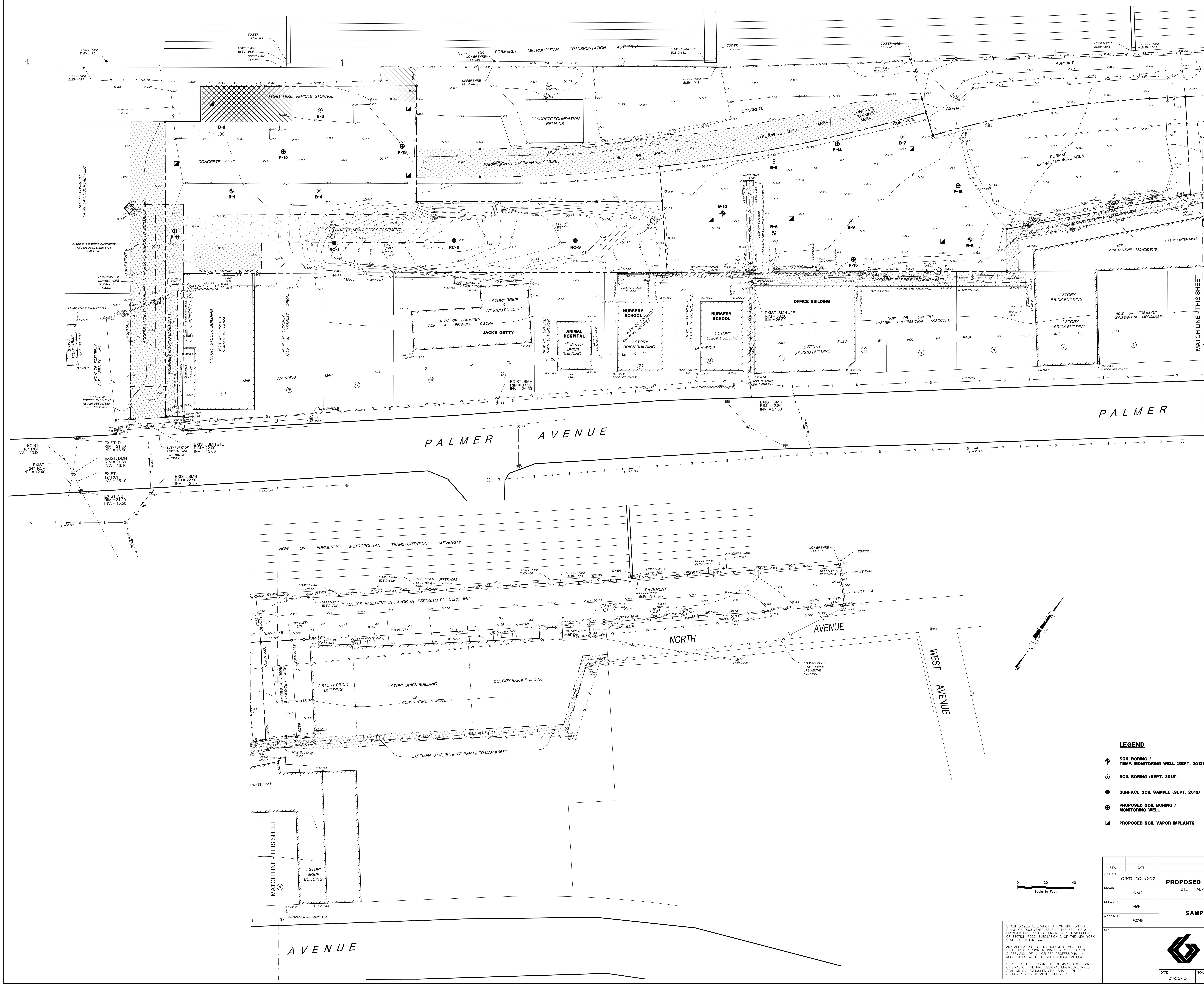
PROPOSED PINEBROOK CONDOMINIUMS

2101 PALMER AVE., LARCHMONT, N.Y. 11538

SITE LOCATION MAP

JOB NO.	Galli Engineering, P.C.
0997-01-002	734 Walt Whitman Road, Suite 402A, Melville, New York 11747
DRAWN: AXC	631-271-9292
CHECKED: MG	FAX 631-271-9345

APPROVED	DATE	SCALE	FIGURE NO.
RDG	11/12/13	1:24000	1



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REV.	DATE	DESCRIPTION	BY

JOB NO. 0997-001-002
DRAWN AXC
CHECKED MG
APPROVED RDG
SEAL

PROPOSED PINEBROOK CONDOMINIUMS
2101 PALMER AVE., LARCHMONT, N.Y. 10538

SAMPLING LOCATION PLAN

Galli Engineering, P.C.
734 Walt Whitman Road, Suite 402A
Melville, New York 11747

DATE 10/02/13 | SCALE 1"=20' | FIGURE NO. 2

TABLES

Table 1
Soil Boring Results - VOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 **Project Id : LARCHMONT**	Lab Sample Id Collection Date Client Id Matrix Units	NY375-6.8b **Track 2** Restricted Residential	NY375-6.8a **Track 1** Unrestricted Use	BF45185 9/24/2013 **B-1 (2-4 FT)** Soil Result	RL	BF45186 9/24/2013 **B-2 (6-8 FT)** Soil Result	RL	BF45187 9/24/2013 **B-3 (2-4 FT)** Soil Result	RL	BF45188 9/24/2013 **B-4 (1-3 FT)** Soil Result	RL	BF45189 9/24/2013 **B-5 (5-7 FT)** Soil Result	RL	BF45190 9/24/2013 **B-6 (1-3 FT)** Soil Result	RL	BF45191 9/24/2013 **B-7 (1-3 FT)** Soil Result	RL	BF45192 9/24/2013 **B-8 (3-5 FT)** Soil Result	RL	BF45193 9/24/2013 **B-9 (3-5 FT)** Soil Result	RL	BF45194 9/24/2013 **B-10 (3-5 FT)** Soil Result	RL
Volatiles By SW8260																							
1,1,1,2-Tetrachloroethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,1,1-Trichloroethane	ug/Kg	100,000	680	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,1,2,2-Tetrachloroethane	ug/Kg			ND	8.5	ND	7.2	ND	11	ND	6.7	ND	340	ND	6.8	ND	12	ND	4	ND	8.1	ND	6.7
1,1,2-Trichloroethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,1-Dichloroethane	ug/Kg	26,000	270	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,1-Dichloroethene	ug/Kg	100,000	330	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,1-Dichloropropene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,2,3-Trichlorobenzene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2,3-Trichloropropane	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2,4-Trichlorobenzene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2,4-Trimethylbenzene	ug/Kg	52,000	3,600	ND	14	ND	12	ND	18	ND	330	5,200	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2-Dibromo-3-chloropropane	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2-Dibromoethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,2-Dichlorobenzene	ug/Kg	100,000	1,100	ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,2-Dichloroethane	ug/Kg	3,100	20	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	20	ND	6.6	ND	14	ND	11
1,2-Dichloropropane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,3,5-Trimethylbenzene	ug/Kg	52,000	8,400	ND	14	ND	12	ND	18	ND	330	3,600	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,3-Dichlorobenzene	ug/Kg	49,000	2,400	ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
1,3-Dichloropropane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
1,4-Dichlorobenzene	ug/Kg	13,000	1,800	ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
2,2-Dichloropropane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
2-Chlorotoluene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
2-Hexanone	ug/Kg			ND	70	ND	60	ND	89	ND	56	ND	2,800	ND	57	ND	100	ND	33	ND	68	ND	56
2-Isopropyltoluene	ug/Kg			ND	14	ND	12	ND	18	ND	330	680	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
4-Chlorotoluene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
4-Methyl-2-pentanone	ug/Kg			ND	70	ND	60	ND	89	ND	56	ND	2,800	ND	57	ND	100	ND	33	ND	68	ND	56
Acetone	ug/Kg	100,000	50	ND	50	ND	50	ND	50	ND	50	ND	3,400	ND	50	ND	120	ND	40	ND	50	ND	50
Acrylonitrile	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Benzene	ug/Kg	4,800	60	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Bromobenzene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
Bromochloromethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Bromodichloromethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Bromoform	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Bromomethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Carbon Disulfide	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Carbon tetrachloride	ug/Kg	2,400	760	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Chlorobenzene	ug/Kg	100,000	1,100	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Chloroethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Chloroform	ug/Kg	49,000	370	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Chloromethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
cis-1,2-Dichloroethene	ug/Kg	100,000	250	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
cis-1,3-Dichloropropene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Dibromochloromethane	ug/Kg			ND	8.5	ND	7.2	ND	11	ND	6.7	ND	340	ND	6.8	ND	12	ND	4	ND	8.1	ND	6.7
Dibromomethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Dichlorodifluoromethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Ethylbenzene	ug/Kg	41,000	1,000	ND	14	ND	12	ND	18	ND	11	4,500	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Hexachlorobutadiene	ug/Kg			ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
Isopropylbenzene	ug/Kg			ND	14	ND	12	ND	18	ND	330	2,300	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
m&p-Xylene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Methyl Ethyl Ketone	ug/Kg	100,000	120	ND	85	ND	72	ND	110	ND	67	ND	3,400	ND	68	ND	120	ND	40	ND	81	ND	67
Methyl t-butyl ether (MTBE)	ug/Kg	100,000	930	ND	28	ND	24	ND	36	ND	22	ND	1,100	ND	23	ND	41	ND	13	ND	27	ND	22
Methylene chloride	ug/Kg	100,000	50	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Naphthalene	ug/Kg			ND	14	ND	12	ND	18	ND	330	9,900	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
n-Butylbenzene	ug/Kg	100,000	12,000	ND	14	ND	12	ND	18	ND	330	2,900	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
n-Propylbenzene	ug/Kg	100,000	3,900	ND	14	ND	12	ND	18	ND	330	3,800	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
o-Xylene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
p-Isopropyltoluene	ug/Kg			ND	14	ND	12	ND	18	ND	330	1,500	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
sec-Butylbenzene	ug/Kg	100,000	11,000	ND	14	ND	12	ND	18	ND	330	4,100	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
Styrene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
tert-Butylbenzene	ug/Kg	100,000	5,900	ND	14	ND	12	ND	18	ND	330	ND	560	ND	300	ND	21	ND	6.6	ND	14	ND	11
Tetrachloroethene	ug/Kg	19,000	1,300	ND	14	ND	12	ND	18	2,400	330	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Tetrahydrofuran (THF)	ug/Kg			ND	28	ND	24	ND	36	ND	22	ND	1,100	ND	23	ND	41	ND	13	ND	27	ND	22
Toluene	ug/Kg	100,000	700	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Total Xylenes	ug/Kg		260	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
trans-1,2-Dichloroethene	ug/Kg	100,000	190	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
trans-1,3-Dichloropropene	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
trans-1,4-dichloro-2-butene	ug/Kg			ND	28	ND	24	ND	36	ND	650	ND	1,100	ND	600	ND	41	ND	13	ND	27	ND	22
Trichloroethene	ug/Kg	21,000	470	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Trichlorofluoromethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Trichlorotrifluoroethane	ug/Kg			ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	21	ND	6.6	ND	14	ND	11
Vinyl chloride	ug/Kg	900	20	ND	14	ND	12	ND	18	ND	11	ND	560	ND	11	ND	20	ND	6.6	ND	14	ND	11

RL Exceeds Criteria

Result Exceeds Criteria

Table 2
Soil Boring Results - SVOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102	Lab Sample Id Collection Date Client Id Matrix	NY375-6.8b **Track 2** Restricted Residential	NY375-6.8a **Track 1** UnRestricted Use	BF45185 9/24/2013 **B-1 (2-4 FT)** Soil		BF45186 9/24/2013 **B-2 (6-8 FT)** Soil		BF45187 9/24/2013 **B-3 (2-4 FT)** Soil		BF45188 9/24/2013 **B-4 (1-3 FT)** Soil		BF45189 9/24/2013 **B-5 (5-7 FT)** Soil		BF45190 9/24/2013 **B-6 (1-3 FT)** Soil		BF45191 9/24/2013 **B-7 (1-3 FT)** Soil		BF45192 9/24/2013 **B-8 (3-5 FT)** Soil		BF45193 9/24/2013 **B-9 (3-5 FT)** Soil		BF45194 9/24/2013 **B-10 (3-5 FT)** Soil	
Project Id : LARCHMONT	Units			Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Semivolatiles By SW 8270																							
1,2,4,5-Tetrachlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
1,2,4-Trichlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
1,2-Dichlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
1,2-Diphenylhydrazine	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
1,3-Dichlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
1,4-Dichlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,4,5-Trichlorophenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,4,6-Trichlorophenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,4-Dichlorophenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,4-Dimethylphenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,4-Dinitrophenol	ug/Kg			ND	3,000	ND	650	ND	600	ND	640	ND	580	ND	1,300	ND	3,000	ND	590	ND	600	ND	580
2,4-Dinitrotoluene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2,6-Dinitrotoluene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2-Chloronaphthalene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2-Chlorophenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2-Methylnaphthalene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	3,500	260	1,100	560	ND	1,300	ND	260	ND	260	ND	250
2-Methylphenol (o-cresol)	ug/Kg	100,000	330	ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
2-Nitroaniline	ug/Kg			ND	3,000	ND	650	ND	600	ND	640	ND	580	ND	1,300	ND	3,000	ND	590	ND	600	ND	580
2-Nitrophenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
3&4-Methylphenol (m&p-cresol)	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
3,3'-Dichlorobenzidine	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
3-Nitroaniline	ug/Kg			ND	3,000	ND	650	ND	600	ND	640	ND	580	ND	1,300	ND	3,000	ND	590	ND	600	ND	580
4,6-Dinitro-2-methylphenol	ug/Kg			ND	5,500	ND	1,200	ND	1,100	ND	1,200	ND	1,100	ND	2,300	ND	5,500	ND	1,100	ND	1,100	ND	1,000
4-Bromophenyl phenyl ether	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
4-Chloro-3-methylphenol	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
4-Chloroaniline	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
4-Chlorophenyl phenyl ether	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
4-Nitroaniline	ug/Kg			ND	3,000	ND	650	ND	600	ND	640	ND	580	ND	1,300	ND	3,000	ND	590	ND	600	ND	580
4-Nitrophenol	ug/Kg			ND	5,500	ND	1,200	ND	1,100	ND	1,200	ND	1,100	ND	2,300	ND	5,500	ND	1,100	ND	1,100	ND	1,000
Acenaphthene	ug/Kg	100,000	20,000	5,300	1,300	ND	290	ND	260	ND	280	400	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Acenaphthylene	ug/Kg	100,000	100,000	1,900	1,300	ND	290	ND	260	890	280	ND	260	ND	560	1,500	1,300	ND	260	ND	260	ND	250
Acetophenone	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Aniline	ug/Kg			ND	5,500	ND	1,200	ND	1,100	ND	1,200	ND	1,100	ND	2,300	ND	5,500	ND	1,100	ND	1,100	ND	1,000
Anthracene	ug/Kg	100,000	100,000	15,000	1,300	ND	290	ND	260	390	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Benz(a)anthracene	ug/Kg	**1,000**	1,000	**39,000**	1,300	ND	290	ND	260	**2,300**	280	ND	260	570	560	**2,700**	1,300	ND	260	ND	260	ND	250
Benzidine	ug/Kg			ND	2,300	ND	490	ND	450	ND	480	ND	440	ND	960	ND	2,300	ND	450	ND	450	ND	430
Benzo(a)pyrene	ug/Kg	**1,000**	1,000	**33,000**	1,300	ND	290	ND	260	**2,800**	280	ND	260	590	560	**2,500**	1,300	ND	260	ND	260	ND	250
Benzo(b)fluoranthene	ug/Kg	**1,000**	1,000	**42,000**	1,300	ND	290	ND	260	**4,600**	280	270	260	**1,100**	560	**4,800**	1,300	ND	260	ND	260	ND	250
Benzo(ghi)perylene	ug/Kg	100,000	100,000	14,000	1,300	ND	290	ND	260	1,600	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Benzo(k)fluoranthene	ug/Kg	**3,900**	800	**21,000**	1,300	ND	290	ND	260	**1,700**	280	ND	260	ND	560	**1,600**	1,300	ND	260	ND	260	ND	250
Benzoic acid	ug/Kg			ND	5,500	ND	1,200	ND	1,100	ND	1,200	ND	1,100	ND	2,300	ND	5,500	ND	1,100	ND	1,100	ND	1,000
Benzyl butyl phthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Bis(2-chloroethoxy)methane	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Bis(2-chloroethyl)ether	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
Bis(2-chloroisopropyl)ether	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Bis(2-ethylhexyl)phthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Carbazole	ug/Kg			5,000	2,800	ND	610	ND	560	ND	600	ND	550	ND	1,200	ND	2,800	ND	560	ND	570	ND	540
Chrysene	ug/Kg	**1,000**	1,000	**35,000**	1,300	ND	290	ND	260	**2,400**	280	ND	260	830	560	**2,600**	1,300	ND	260	ND	260	ND	250
Dibenz(a,h)anthracene	ug/Kg	**330**	330	**5,500**	1,300	ND	290	ND	260	**520**	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Dibenzofuran	ug/Kg		7,000	3,100	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Diethyl phthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Dimethylphthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Di-n-butylphthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Di-n-octylphthalate	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Fluoranthene	ug/Kg	100,000	100,000	91,000	1,300	ND	290	ND	260	3,100	280	680	260	1,000	560	2,700	1,300	ND	260	ND	260	ND	250
Fluorene	ug/Kg	100,000	30,000	5,000	1,300	ND	290	ND	260	ND	280	710	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Hexachlorobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Hexachlorobutadiene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Hexachlorocyclopentadiene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Hexachloroethane	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Indeno(1,2,3-cd)pyrene	ug/Kg	**500**	500	**17,000**	1,300	ND	290	ND	260	**1,500**	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Isophorone	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Naphthalene	ug/Kg	100,000	12,000	ND	1,300	ND	290	ND	260	ND	280	800	260	650	560	ND	1,300	ND	260	ND	260	ND	250
Nitrobenzene	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
N-Nitrosodimethylamine	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
N-Nitrosodi-n-propylamine	ug/Kg			ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
N-Nitrosodiphenylamine	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
Pentachloronitrobenzene	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
Pentachlorophenol	ug/Kg	6,700	800	ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360
Phenanthrene	ug/Kg	100,000	100,000	53,000	1,300	ND	290	260	260	640	280	1,600	260	820	560	ND	1,300	ND	260	ND	260	ND	250
Phenol	ug/Kg	100,000	330	ND	1,300	ND	290	ND	260	ND	280	ND	260	ND	560	ND	1,300	ND	260	ND	260	ND	250
Pyrene	ug/Kg	100,000	100,000	69,000	1,300	ND	290	ND	260	3,000	280	720	260	940	560	3,200	1,300	ND	260	ND	260	ND	250
Pyridine	ug/Kg			ND	1,900	ND	410	ND	370	ND	400	ND	370	ND	800	ND	1,900	ND	370	ND	380	ND	360

RL Exceeds Criteria

Result Exceeds Criteria

TABLE 3
Soil Boring Results - Metals and PCBs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102	Lab Sample Id			BF45185		BF45186		BF45187		BF45188		BF45189		BF45190		BF45191		BF45192		BF45193		BF45194	
	Collection Date			9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013	
	Client Id	NY375-6.8b	NY375-6.8a	**B-1 (2-4 FT)**		**B-2 (6-8 FT)**		**B-3 (2-4 FT)**		**B-4 (1-3 FT)**		**B-5 (5-7 FT)**		**B-6 (1-3 FT)**		**B-7 (1-3 FT)**		**B-8 (3-5 FT)**		**B-9 (3-5 FT)**		**B-10 (3-5 FT)**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Project Id : LARCHMONT	Units	Restricted Residential	UnRestricted Use	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Metals, Total																							
Aluminum	mg/Kg			7,570	61	18,200	62	4,500	60	10,100	56	13,200	59	8,000	64	7,940	59	15,000	53	18,100	51	17,500	56
Antimony	mg/Kg			BRL	4.1	BRL	4.1	BRL	4	BRL	3.8	BRL	4	BRL	5	BRL	8	BRL	3.6	BRL	3.4	BRL	3.8
Arsenic	mg/Kg	**16**	13	17	0.8	1.7	0.8	4.4	0.8	**17.6**	0.8	1.3	0.8	10.5	0.8	**40.1**	0.8	2	0.7	BRL	0.7	1.1	0.8
Barium	mg/Kg	350	350	96.8	0.41	69	0.41	77.8	0.4	79.7	0.38	176	0.4	79.5	0.42	63.2	0.39	153	0.36	123	0.34	144	0.38
Beryllium	mg/Kg	72	7.2	BRL	0.32	0.44	0.33	BRL	0.32	0.4	0.3	0.34	0.32	0.35	0.34	BRL	0.32	0.41	0.28	0.58	0.27	0.44	0.3
Cadmium	mg/Kg	**4.3**	2.5	3.19	0.41	1.06	0.41	0.79	0.4	1.49	0.38	1.12	0.4	1.26	0.42	2.31	0.39	1.26	0.36	1.52	0.34	1.12	0.38
Calcium	mg/Kg			23,000	61	818	6.2	2,170	6	2,680	5.6	4,780	5.9	4,580	6.4	4,060	5.9	1,630	5.3	1,600	5.1	1,140	5.6
Chromium	mg/Kg			73.5	0.41	30.6	0.41	12.7	0.4	18.1	0.38	35	0.4	18.4	0.42	17.5	0.39	34.7	0.36	38.9	0.34	41.4	0.38
Cobalt	mg/Kg			10.4	0.41	10.3	0.41	11.7	0.4	9.67	0.38	12.8	0.4	10.1	0.42	12	0.39	14.4	0.36	23.7	0.34	13	0.38
Copper	mg/kg	270	50	147	0.41	8.24	0.41	34.6	0.4	66.4	0.38	34.2	0.4	68.4	4.2	161	3.9	31.6	3.6	90.9	0.34	38.4	0.38
Iron	mg/Kg			29,600	61	30,400	62	18,400	60	23,300	56	27,800	59	29,400	64	40,100	59	30,100	53	33,200	51	25,400	56
Lead	mg/Kg	**400**	63	**477**	4.1	7.66	0.41	22.1	0.4	95.5	0.38	9.46	0.4	116	0.42	229	3.9	7	0.36	7.26	0.34	5.79	0.38
Magnesium	mg/Kg			4,220	6.1	6,160	62	1,140	60	2,730	5.6	6,520	5.9	2,920	6.4	3,080	5.9	7,270	53	8,860	51	6,950	56
Manganese	mg/Kg	2,000	1,600	315	4.1	126	4.1	223	4	245	3.8	526	4	337	4.2	399	3.9	556	3.6	715	3.4	424	3.8
Mercury	mg/Kg	0.81	0.18	0.12	0.08	BRL	0.08	BRL	0.06	BRL	0.09	BRL	0.06	BRL	0.07	0.12	0.07	BRL	0.08	BRL	0.07	BRL	0.06
Nickel	mg/Kg	310	30	21.7	0.41	17.9	0.41	23.7	0.4	18.1	0.38	27.2	0.4	17.6	0.42	20.8	0.39	24	0.36	35.8	0.34	24.8	0.38
Potassium	mg/Kg			708	6.1	1,160	62	1,110	6	1,050	5.6	5,430	59	2,240	64	905	59	6,000	53	6,650	51	5,940	56
Selenium	mg/Kg	180	3.9	BRL	1.6	BRL	1.6	BRL	1.6	BRL	1.5	BRL	1.6	BRL	1.7	BRL	1.6	BRL	1.4	BRL	2.5	BRL	1.5
Silver	mg/Kg	180	2	BRL	0.41	BRL	0.41	BRL	0.4	BRL	0.38	BRL	0.4	BRL	0.42	BRL	0.39	BRL	0.36	BRL	0.34	BRL	0.38
Sodium	mg/Kg			415	6.1	112	6.2	119	6	211	5.6	218	5.9	287	6.4	298	5.9	134	5.3	299	5.1	196	5.6
Thallium	mg/Kg			BRL	3.7	BRL	3.7	BRL	3.6	BRL	3.4	BRL	3.6	BRL	3.8	BRL	3.6	BRL	3.2	BRL	3.1	BRL	3.4
Vanadium	mg/Kg			38.6	0.41	51.6	0.41	18.5	0.4	34.3	0.38	41.7	0.4	29.3	0.42	41.1	0.39	46.8	0.36	66.7	0.34	43	0.38
Zinc	mg/Kg	10,000	109	391	4.1	40.6	0.41	41.6	0.4	139	0.38	58.5	0.4	97.9	0.42	222	3.9	59.5	0.36	74.4	0.34	50.2	0.38
PCBs By SW 8082																							
PCB-1016	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1221	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1232	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1242	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1248	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1254	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1260	ug/Kg	1,000	100	ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1262	ug/Kg			ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72
PCB-1268	ug/Kg			ND	75	ND	80	ND	75	ND	81	ND	75	ND	79	ND	75	ND	74	ND	75	ND	72

Result Exceeds Criteria

Table 4
Soil Boring Results - Pesticides and Herbicides

Phoenix Environmental Labs
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Project Id : LARCHMONT

	Lab Sample Id			BF45185		BF45186		BF45187		BF45188		BF45189		BF45190		BF45191		BF45192		BF45193		BF45194	
	Collection Date			9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013		9/24/2013	
	Client Id	NY375-6.8b	NY375-6.8a	**B-1 (2-4 FT)**		**B-2 (6-8 FT)**		**B-3 (2-4 FT)**		**B-4 (1-3 FT)**		**B-5 (5-7 FT)**		**B-6 (1-3 FT)**		**B-7 (1-3 FT)**		**B-8 (3-5 FT)**		**B-9 (3-5 FT)**		**B-10 (3-5 FT)**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
	Units	Restricted Residential	Unrestricted Use	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Pesticides By SW8081																							
4,4' -DDD	ug/Kg	13,000	3.3	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND*	7.2	ND	2.2	ND	2.2	ND	2.2
4,4' -DDE	ug/Kg	8,900	3.3	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.7	ND	2.2	ND	2.2	ND	2.2
4,4' -DDT	ug/Kg	7,900	**3.3**	ND*	12	ND	2.4	ND	2.2	**9.6**	2.4	ND	2.2	ND	2.4	ND*	7.5	ND	2.2	ND	2.2	ND	2.2
a-BHC	ug/Kg	480	20	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Alachlor	ug/Kg			ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Aldrin	ug/Kg	97	5	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1
b-BHC	ug/Kg	72	36	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Chlordane	ug/Kg			ND	11	ND	12	ND	11	ND	12	290	11	ND	12	ND	11	ND	11	53	11	ND	11
d-BHC	ug/Kg	100,000	40	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Dieldrin	ug/Kg	200	5	ND	1.9	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	4	ND*	9	ND	1.1	ND	1.1	ND	1.1
Endosulfan I	ug/Kg	24,000	2,400	ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Endosulfan II	ug/Kg	24,000	2,400	ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endosulfan sulfate	ug/Kg	24,000	2,400	ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin	ug/Kg	11,000	14	ND	11	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin aldehyde	ug/Kg			ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
Endrin ketone	ug/Kg			ND	7.2	ND	7.7	ND	7.2	ND	7.8	ND	7.2	ND	7.6	ND	7.2	ND	7.1	ND	7.2	ND	6.9
g-BHC	ug/Kg	280	100	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.2	ND	1.1	ND	1.1	ND	1.1	ND	1.1
Heptachlor	ug/Kg	2,100	42	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.4	ND	2.2	ND	2.2	ND	2.2	ND	2.2
Heptachlor epoxide	ug/Kg			ND	3.6	ND	3.8	ND	3.6	ND	3.9	ND	3.6	ND	3.8	ND	3.6	ND	3.5	ND	3.6	ND	3.4
Methoxychlor	ug/Kg			ND	45	ND	38	ND	36	ND	39	ND	36	ND	38	ND	36	ND	35	ND	36	ND	34
Toxaphene	ug/Kg			ND	36	ND	38	ND	36	ND	39	ND	36	ND	38	ND	36	ND	35	ND	36	ND	34
Chlorinated Herbicides By SW8151																							
2,4,5-T	ug/Kg			ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
2,4,5-TP (Silvex)	ug/Kg	100,000	3,800	ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
2,4-D	ug/Kg			ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
2,4-DB	ug/Kg			ND	470	ND	510	ND	470	ND	510	ND	460	ND	500	ND	470	ND	470	ND	470	ND	460
Dalapon	ug/Kg			ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
Dicamba	ug/Kg			ND	94	ND	100	ND	94	ND	100	ND	92	ND	99	ND	94	ND	94	ND	94	ND	92
Dichloroprop	ug/Kg			ND	47	ND	51	ND	47	ND	51	ND	46	ND	50	ND	47	ND	47	ND	47	ND	46
Dinoseb	ug/Kg			ND	94	ND	100	ND	94	ND	100	ND	92	ND	99	ND	94	ND	94	ND	94	ND	92

RL Exceeds Criteria (light grey)

Result Exceeds Criteria (dark grey)

Table 5
Groundwater Sampling Data - VOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 **Project Id : LARCHMONT**	Lab Sample Id Collection Date Client Id Matrix		BF45882 9/25/2013 **TW-B-6** Groundwater		BF45883 9/25/2013 **TW-B-8** Groundwater		BF45881 9/25/2013 **TW-B-10** Groundwater	
	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
Volatiles By SW8260								
1,1,1,2-Tetrachloroethane	ug/L	5	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	ug/L	5	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	ug/L	5	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ug/L	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	ug/L	5	ND	1	ND	1	ND	1
1,1-Dichloroethene	ug/L	5	ND	1	ND	1	ND	1
1,1-Dichloropropene	ug/L	5	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene	ug/L		ND	1	ND	1	ND	1
1,2,3-Trichloropropane	ug/L	0.04	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ug/L		ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	ug/L	**5**	**9.2**	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	ug/L	0.04	ND	1	ND	1	ND	1
1,2-Dibromoethane	ug/L	0.0006	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	ug/L		ND	1	ND	1	ND	1
1,2-Dichloroethane	ug/L	0.6	ND	0.6	ND	0.6	ND	0.6
1,2-Dichloropropane	ug/L	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene	ug/L	**5**	**5.8**	1	ND	1	ND	1
1,3-Dichlorobenzene	ug/L	3	ND	1	ND	1	ND	1
1,3-Dichloropropane	ug/L	5	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	ug/L		ND	1	ND	1	ND	1
2,2-Dichloropropane	ug/L	5	ND	1	ND	1	ND	1
2-Chlorotoluene	ug/L	5	ND	1	ND	1	ND	1
2-Hexanone	ug/L	50	ND	5	ND	5	ND	5
2-Isopropyltoluene	ug/L	5	1	1	ND	1	ND	1
4-Chlorotoluene	ug/L	5	ND	1	ND	1	ND	1
4-Methyl-2-pentanone	ug/L		ND	5	ND	5	ND	5
Acetone	ug/L	50	ND	25	ND	25	ND	25
Acrylonitrile	ug/L	5	ND	5	ND	5	ND	5
Benzene	ug/L	1	ND	0.7	ND	0.7	ND	0.7
Bromobenzene	ug/L	5	ND	1	ND	1	ND	1
Bromochloromethane	ug/L	5	ND	1	ND	1	ND	1
Bromodichloromethane	ug/L	50	ND	0.5	ND	0.5	ND	0.5
Bromoform	ug/L	50	ND	1	ND	1	ND	1
Bromomethane	ug/L	5	ND	1	ND	1	ND	1
Carbon Disulfide	ug/L		ND	5	ND	5	ND	5
Carbon tetrachloride	ug/L	5	ND	1	ND	1	ND	1
Chlorobenzene	ug/L	5	ND	1	ND	1	ND	1
Chloroethane	ug/L	5	ND	1	ND	1	ND	1
Chloroform	ug/L	7	ND	1	ND	1	ND	1
Chloromethane	ug/L	5	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	ug/L	5	ND	1	ND	1	2.8	1
cis-1,3-Dichloropropene	ug/L	0.4	ND	0.5	ND	0.5	ND	0.5
Dibromochloromethane	ug/L	50	ND	0.5	ND	0.5	ND	0.5
Dibromomethane	ug/L	5	ND	1	ND	1	ND	1
Dichlorodifluoromethane	ug/L	5	ND	1	ND	1	ND	1
Ethylbenzene	ug/L	**5**	**5.8**	1	ND	1	ND	1
Hexachlorobutadiene	ug/L	0.5	ND	0.4	ND	0.4	ND	0.4
Isopropylbenzene	ug/L	5	4.7	1	ND	1	ND	1
m&p-Xylene	ug/L		ND	1	ND	1	ND	1
Methyl ethyl ketone	ug/L	50	ND	5	ND	5	ND	5
Methyl t-butyl ether (MTBE)	ug/L		ND	1	ND	1	ND	1
Methylene chloride	ug/L	5	ND	1	ND	1	ND	1
Naphthalene	ug/L	**10**	**29**	1	ND	1	ND	1
n-Butylbenzene	ug/L	5	3	1	ND	1	ND	1
n-Propylbenzene	ug/L	**5**	**6.5**	1	ND	1	ND	1
o-Xylene	ug/L	5	ND	1	ND	1	ND	1
p-Isopropyltoluene	ug/L	5	1.6	1	ND	1	ND	1
sec-Butylbenzene	ug/L	5	5	1	ND	1	ND	1
Styrene	ug/L	5	ND	1	ND	1	ND	1
tert-Butylbenzene	ug/L	5	ND	1	ND	1	ND	1
Tetrachloroethene	ug/L	**5**	ND	1	ND	1	**23**	1
Tetrahydrofuran (THF)	ug/L	50	ND	2.5	ND	2.5	ND	2.5
Toluene	ug/L	5	ND	1	ND	1	ND	1
Total Xylenes	ug/L	5	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	ug/L	5	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene	ug/L	0.4	ND	0.5	ND	0.5	ND	0.5
trans-1,4-dichloro-2-butene	ug/L	5	ND	5	ND	5	ND	5
Trichloroethene	ug/L	5	ND	1	ND	1	2.3	1
Trichlorofluoromethane	ug/L	5	ND	1	ND	1	ND	1
Trichlorotrifluoroethane	ug/L	5	ND	1	ND	1	ND	1
Vinyl chloride	ug/L	2	ND	1	ND	1	ND	1

RL Exceeds Criteria

Result Exceeds Criteria

Table 6
Groundwater Sampling Data - SVOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102								
	Lab Sample Id		BF45882		BF45883		BF45881	
	Collection Date		9/25/2013		9/25/2013		9/25/2013	
	Client Id		**TW-B-6**		**TW-B-8**		**TW-B-10**	
	Matrix		Groundwater		Groundwater		Groundwater	
Project Id : LARCHMONT								
	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
Semivolatiles By SW8270 (SIM)								
1,2,4,5-Tetrachlorobenzene	ug/L		ND	1.6	ND	1.7	ND	1.6
Acenaphthene	ug/L	20	2.8	0.05	ND	0.053	ND	0.05
Acenaphthylene	ug/L		0.58	0.05	ND	0.053	ND	0.05
Benz(a)anthracene	ug/L	0.002	**0.07**	0.04	ND	0.042	ND	0.04
Benzo(a)pyrene	ug/L		ND	0.05	ND	0.053	ND	0.05
Benzo(b)fluoranthene	ug/L	0.002	ND	0.05	ND	0.053	ND	0.05
Benzo(ghi)perylene	ug/L		ND	3	ND	3.2	ND	3
Benzo(k)fluoranthene	ug/L	0.002	ND	0.05	ND	0.053	ND	0.05
Bis(2-ethylhexyl)phthalate	ug/L	5	ND	1.6	ND	1.7	ND	1.6
Chrysene	ug/L	0.002	**0.06**	0.05	ND	0.053	ND	0.05
Dibenz(a,h)anthracene	ug/L		ND	0.01	ND	0.011	ND	0.01
Hexachlorobenzene	ug/L	0.04	ND	0.06	ND	0.063	ND	0.06
Hexachloroethane	ug/L	5	ND	2.4	ND	2.5	ND	2.4
Indeno(1,2,3-cd)pyrene	ug/L	0.002	ND	0.05	ND	0.053	ND	0.05
Pentachloronitrobenzene	ug/L		ND	0.1	ND	0.11	ND	0.1
Pentachlorophenol	ug/L	1	ND	0.8	ND	0.84	ND	0.8
Phenanthrene	ug/L	50	7.2	0.05	ND	0.053	ND	0.05
Pyridine	ug/L	50	ND	0.5	ND	0.53	ND	0.5
Semivolatiles By SW8270								
1,2,4-Trichlorobenzene	ug/L		ND	5	ND	5.3	ND	5
1,2-Dichlorobenzene	ug/L		ND	5	ND	5.3	ND	5
1,2-Diphenylhydrazine	ug/L		ND	5	ND	5.3	ND	5
1,3-Dichlorobenzene	ug/L	3	ND	5	ND	5.3	ND	5
1,4-Dichlorobenzene	ug/L		ND	5	ND	5.3	ND	5
2,4,5-Trichlorophenol	ug/L	1	ND	10	ND	11	ND	10
2,4,6-Trichlorophenol	ug/L	1	ND	10	ND	11	ND	10
2,4-Dichlorophenol	ug/L	5	ND	10	ND	11	ND	10
2,4-Dimethylphenol	ug/L	1	ND	10	ND	11	ND	10
2,4-Dinitrophenol	ug/L	5	ND	50	ND	53	ND	50
2,4-Dinitrotoluene	ug/L	5	ND	5	ND	5.3	ND	5
2,6-Dinitrotoluene	ug/L	5	ND	5	ND	5.3	ND	5
2-Chloronaphthalene	ug/L	10	ND	5	ND	5.3	ND	5
2-Chlorophenol	ug/L	1	ND	10	ND	11	ND	10
2-Methylnaphthalene	ug/L		33	5	ND	5.3	ND	5
2-Methylphenol (o-cresol)	ug/L	1	ND	10	ND	11	ND	10
2-Nitroaniline	ug/L	5	ND	50	ND	53	ND	50
2-Nitrophenol	ug/L	1	ND	10	ND	11	ND	10
3&4-Methylphenol (m&p-cresol)	ug/L		ND	10	ND	11	ND	10
3,3'-Dichlorobenzidine	ug/L	5	ND	50	ND	53	ND	50
3-Nitroaniline	ug/L	5	ND	50	ND	53	ND	50
4,6-Dinitro-2-methylphenol	ug/L	1	ND	50	ND	53	ND	50
4-Bromophenyl phenyl ether	ug/L		ND	5	ND	5.3	ND	5
4-Chloro-3-methylphenol	ug/L	1	ND	20	ND	21	ND	20
4-Chloroaniline	ug/L	5	ND	20	ND	21	ND	20
4-Chlorophenyl phenyl ether	ug/L		ND	5	ND	5.3	ND	5
4-Nitroaniline	ug/L	5	ND	20	ND	21	ND	20
4-Nitrophenol	ug/L	1	ND	50	ND	53	ND	50
Acetophenone	ug/L		ND	5	ND	5.3	ND	5
Aniline	ug/L	5	ND	10	ND	11	ND	10
Anthracene	ug/L	50	ND	5	ND	5.3	ND	5
Benzidine	ug/L	5	ND	50	ND	53	ND	50
Benzoic acid	ug/L		ND	50	ND	53	ND	50
Benzyl butyl phthalate	ug/L	50	ND	5	ND	5.3	ND	5
Bis(2-chloroethoxy)methane	ug/L	5	ND	5	ND	5.3	ND	5
Bis(2-chloroethyl)ether	ug/L	1	ND	5	ND	5.3	ND	5
Bis(2-chloroisopropyl)ether	ug/L		ND	5	ND	5.3	ND	5
Carbazole	ug/L		ND	5	ND	5.3	ND	5
Dibenzofuran	ug/L		ND	5	ND	5.3	ND	5
Diethyl phthalate	ug/L	50	ND	5	ND	5.3	ND	5
Dimethylphthalate	ug/L	50	ND	5	ND	5.3	ND	5
Di-n-butylphthalate	ug/L	50	ND	5	ND	5.3	ND	5
Di-n-octylphthalate	ug/L	50	ND	5	ND	5.3	ND	5
Fluoranthene	ug/L	50	ND	5	ND	5.3	ND	5
Fluorene	ug/L	50	ND	5	ND	5.3	ND	5
Hexachlorobutadiene	ug/L	0.5	ND	5	ND	5.3	ND	5
Hexachlorocyclopentadiene	ug/L	5	ND	5	ND	5.3	ND	5
Isophorone	ug/L	50	ND	5	ND	5.3	ND	5
Naphthalene	ug/L	10	8.8	5	ND	5.3	ND	5
Nitrobenzene	ug/L	0.4	ND	5	ND	5.3	ND	5
N-Nitrosodimethylamine	ug/L		ND	5	ND	5.3	ND	5
N-Nitrosodi-n-propylamine	ug/L		ND	5	ND	5.3	ND	5
N-Nitrosodiphenylamine	ug/L	50	ND	5	ND	5.3	ND	5
Phenol	ug/L	1	ND	5	ND	5.3	ND	5
Pyrene	ug/L	50	ND	5	ND	5.3	ND	5

RL Exceeds Criteria (light grey shading)

Result Exceeds Criteria (dark grey shading)

Table 7
Groundwater Sampling Results - Metals

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 **Project Id : LARCHMONT**	Lab Sample Id Collection Date Client Id Matrix		BF45882 9/25/2013 **TW-B-6** Groundwater		BF45883 9/25/2013 **TW-B-8** Groundwater		BF45881 9/25/2013 **TW-B-10** Groundwater	
	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
Metals, Total								
Aluminum	mg/L	0.1	166	0.1	14.3	0.01	149	0.1
Aluminum (Dissolved)	mg/L	0.1	2.09	0.01	0.71	0.01	0.31	0.01
Antimony	mg/L	0.003	BRL	0.005	BRL	0.005	BRL	0.005
Antimony (Dissolved)	mg/L	0.003	BRL	0.005	BRL	0.005	BRL	0.005
Arsenic	mg/L	0.025	0.018	0.004	BRL	0.004	0.011	0.004
Arsenic (Dissolved)	mg/L	0.025	BRL	0.004	BRL	0.004	BRL	0.004
Barium	mg/L	1	2.9	0.002	0.22	0.002	1.4	0.002
Barium (Dissolved)	mg/L	1	0.081	0.002	0.086	0.002	0.097	0.002
Beryllium	mg/L	0.003	0.009	0.001	BRL	0.001	0.005	0.001
Beryllium (Dissolved)	mg/L	0.003	BRL	0.001	BRL	0.001	BRL	0.001
Cadmium	mg/L	0.005	0.013	0.001	BRL	0.001	0.011	0.001
Cadmium (Dissolved)	mg/L	0.005	BRL	0.001	BRL	0.001	BRL	0.001
Calcium	mg/L		205	0.1	52.6	0.01	54.7	0.01
Calcium (Dissolved)	mg/L		76.8	0.01	53.7	0.01	42.6	0.01
Chromium	mg/L	0.05	0.471	0.001	0.054	0.001	0.401	0.001
Chromium (Dissolved)	mg/L	0.05	0.005	0.001	0.003	0.001	0.001	0.001
Cobalt	mg/L		0.478	0.002	0.017	0.002	0.189	0.002
Cobalt (Dissolved)	mg/L		0.003	0.001	0.005	0.001	0.012	0.001
Copper	mg/L	0.2	0.912	0.005	0.043	0.005	0.74	0.005
Copper (Dissolved)	mg/L	0.2	0.008	0.005	BRL	0.005	BRL	0.005
Iron	mg/L	0.3	428	0.1	23	0.01	385	0.1
Iron (Dissolved)	mg/L	0.3	3.2	0.011	0.945	0.011	0.332	0.011
Lead	mg/L	0.025	0.09	0.002	0.006	0.002	0.114	0.002
Lead (Dissolved)	mg/L	0.025	BRL	0.002	BRL	0.002	BRL	0.002
Magnesium	mg/L	35	115	0.1	19.6	0.01	67.8	0.01
Magnesium (Dissolved)	mg/L	35	14.1	0.01	14.7	0.01	10.8	0.01
Manganese	mg/L	0.3	32.7	0.1	2.14	0.01	10.9	0.01
Manganese (Dissolved)	mg/L	0.3	0.435	0.001	2.21	0.011	3.56	0.011
Mercury	mg/L	0.0007	BRL	0.0002	BRL	0.0002	BRL	0.0002
Mercury (Dissolved)	mg/L	0.0007	BRL	0.0002	BRL	0.0002	BRL	0.0002
Nickel	mg/L	0.1	0.586	0.001	0.039	0.001	0.325	0.001
Nickel (Dissolved)	mg/L	0.1	0.006	0.001	0.012	0.001	0.012	0.001
Potassium	mg/L		96.8	1	18.1	0.1	74.6	1
Potassium (Dissolved)	mg/L		12.9	0.1	11.5	0.1	10.7	0.1
Selenium	mg/L	0.01	BRL	0.01	BRL	0.01	BRL	0.01
Selenium (Dissolved)	mg/L	0.01	BRL	0.011	BRL	0.011	BRL	0.011
Silver	mg/L	0.05	BRL	0.002	BRL	0.001	BRL	0.001
Silver (Dissolved)	mg/L	0.05	BRL	0.001	BRL	0.001	BRL	0.001
Sodium	mg/L	20	154	0.1	73.7	0.1	110	0.1
Sodium (Dissolved)	mg/L	20	191	1.1	65.9	1.1	135	1.1
Thallium	mg/L	0.0005	BRL	0.002	BRL	0.002	BRL	0.002
Thallium (Dissolved)	mg/L	0.0005	BRL	0.002	BRL	0.002	BRL	0.002
Vanadium	mg/L		0.486	0.002	0.037	0.002	0.495	0.002
Vanadium (Dissolved)	mg/L		0.008	0.002	BRL	0.002	BRL	0.002
Zinc	mg/L	5	0.822	0.002	0.059	0.002	0.602	0.002
Zinc (Dissolved)	mg/L	5	0.01	0.002	0.004	0.002	0.002	0.002

RL Exceeds Criteria

Result Exceeds Criteria

Table 8
Groundwater Sampling Results - PCBs and Pesticides

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102	Lab Sample Id Collection Date Client Id Matrix		BF45882 9/25/2013 **TW-B-6** Groundwater		BF45883 9/25/2013 **TW-B-8** Groundwater		BF45881 9/25/2013 **TW-B-10** Groundwater	
Project Id : LARCHMONT	Units	TOGS-WQ/GA	Result	RL	Result	RL	Result	RL
PCBs By 8082								
PCB-1016	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1221	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1232	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1242	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1248	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1254	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1260	ug/L	0.09	ND	0.05	ND	0.05	ND	0.056
PCB-1262	ug/L		ND	0.05	ND	0.05	ND	0.056
PCB-1268	ug/L		ND	0.05	ND	0.05	ND	0.056
Pesticides By SW8081								
4,4' -DDD	ug/L	0.3	ND*	0.5	ND	0.01	ND	0.01
4,4' -DDE	ug/L	0.2	ND*	0.5	ND	0.01	ND	0.01
4,4' -DDT	ug/L	0.2	ND*	0.5	ND	0.01	ND	0.01
a-BHC	ug/L	0.01	ND*	0.25	ND	0.01	ND	0.01
Alachlor	ug/L	0.5	ND*	0.75	ND	0.075	ND	0.083
Aldrin	ug/L		ND*	0.015	ND	0.002	ND	0.003
b-BHC	ug/L	0.04	ND*	0.05	ND	0.005	ND	0.006
Chlordane	ug/L	**0.05**	**0.29**	0.2	ND	0.05	**0.65**	0.33
d-BHC	ug/L	0.04	ND*	0.25	ND	0.025	ND	0.028
Dieldrin	ug/L	0.004	ND*	0.015	ND	0.002	ND	0.002
Endosulfan I	ug/L		ND*	0.5	ND	0.05	ND	0.056
Endosulfan II	ug/L		ND*	0.5	ND	0.05	ND	0.056
Endosulfan Sulfate	ug/L		ND*	0.5	ND	0.05	ND	0.056
Endrin	ug/L		ND*	0.5	ND	0.01	ND	0.01
Endrin Aldehyde	ug/L	5	ND*	0.5	ND	0.05	ND	0.056
Endrin ketone	ug/L	5	ND*	0.5	ND	0.05	ND	0.056
g-BHC (Lindane)	ug/L	0.05	ND*	0.25	ND	0.025	ND	0.028
Heptachlor	ug/L	0.04	ND*	0.25	ND	0.01	ND	0.01
Heptachlor epoxide	ug/L	0.03	ND*	0.25	ND	0.01	ND	0.01
Methoxychlor	ug/L	35	ND*	1	ND	0.1	ND	0.11
Toxaphene	ug/L	0.06	ND*	10	ND	0.25	ND	0.28

RL Exceeds Criteria (light grey)

Result Exceeds Criteria (dark grey)

TABLE 9
Rock Outcrop Overburden Soil Sampling Results - VOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 **Project Id : LARCHMONT**	Lab Sample Id Collection Date Client Id Matrix Units	NY375-6.8b **Track 2** Restricted Residential	NY375-6.8a **Track 1** Unrestricted Use	BF45893 9/25/2013 **RC-1** Soil Result	RL	BF45894 9/25/2013 **RC-2** Soil Result	RL	BF45895 9/25/2013 **RC-3** Soil Result	RL
Volatiles By SW8260									
1,1,1,2-Tetrachloroethane	ug/Kg			ND	12	ND	20	ND	11
1,1,1-Trichloroethane	ug/Kg	100,000	680	ND	12	ND	20	ND	11
1,1,2,2-Tetrachloroethane	ug/Kg			ND	7.1	ND	12	ND	6.9
1,1,2-Trichloroethane	ug/Kg			ND	12	ND	20	ND	11
1,1-Dichloroethane	ug/Kg	26,000	270	ND	12	ND	20	ND	11
1,1-Dichloroethene	ug/Kg	100,000	330	ND	12	ND	20	ND	11
1,1-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
1,2,3-Trichlorobenzene	ug/Kg			ND	12	ND	20	ND	11
1,2,3-Trichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,2,4-Trichlorobenzene	ug/Kg			ND	12	ND	20	ND	11
1,2,4-Trimethylbenzene	ug/Kg	52,000	3,600	ND	12	ND	20	ND	11
1,2-Dibromo-3-chloropropane	ug/Kg			ND	12	ND	20	ND	11
1,2-Dibromoethane	ug/Kg			ND	12	ND	20	ND	11
1,2-Dichlorobenzene	ug/Kg	100,000	1,100	ND	12	ND	20	ND	11
1,2-Dichloroethane	ug/Kg	3,100	20	ND	12	ND	20	ND	11
1,2-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,3,5-Trimethylbenzene	ug/Kg	52,000	8,400	ND	12	ND	20	ND	11
1,3-Dichlorobenzene	ug/Kg	49,000	2,400	ND	12	ND	20	ND	11
1,3-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
1,4-Dichlorobenzene	ug/Kg	13,000	1,800	ND	12	ND	20	ND	11
2,2-Dichloropropane	ug/Kg			ND	12	ND	20	ND	11
2-Chlorotoluene	ug/Kg			ND	12	ND	20	ND	11
2-Hexanone	ug/Kg			ND	60	ND	98	ND	57
2-Isopropyltoluene	ug/Kg			ND	12	ND	20	ND	11
4-Chlorotoluene	ug/Kg			ND	12	ND	20	ND	11
4-Methyl-2-pentanone	ug/Kg			ND	60	ND	98	ND	57
Acetone	ug/Kg	100,000	50	ND	71	ND	120	ND	69
Acrylonitrile	ug/Kg			ND	12	ND	20	ND	11
Benzene	ug/Kg	4,800	60	ND	12	ND	20	ND	11
Bromobenzene	ug/Kg			ND	12	ND	20	ND	11
Bromochloromethane	ug/Kg			ND	12	ND	20	ND	11
Bromodichloromethane	ug/Kg			ND	12	ND	20	ND	11
Bromoform	ug/Kg			ND	12	ND	20	ND	11
Bromomethane	ug/Kg			ND	12	ND	20	ND	11
Carbon Disulfide	ug/Kg			ND	12	ND	20	ND	11
Carbon tetrachloride	ug/Kg	2,400	760	ND	12	ND	20	ND	11
Chlorobenzene	ug/Kg	100,000	1,100	ND	12	ND	20	ND	11
Chloroethane	ug/Kg			ND	12	ND	20	ND	11
Chloroform	ug/Kg	49,000	370	ND	12	ND	20	ND	11
Chloromethane	ug/Kg			ND	12	ND	20	ND	11
cis-1,2-Dichloroethene	ug/Kg	100,000	250	ND	12	ND	20	ND	11
cis-1,3-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
Dibromochloromethane	ug/Kg			ND	7.1	ND	12	ND	6.9
Dibromomethane	ug/Kg			ND	12	ND	20	ND	11
Dichlorodifluoromethane	ug/Kg			ND	12	ND	20	ND	11
Ethylbenzene	ug/Kg	41,000	1,000	ND	12	ND	20	ND	11
Hexachlorobutadiene	ug/Kg			ND	12	ND	20	ND	11
Isopropylbenzene	ug/Kg			ND	12	ND	20	ND	11
m&p-Xylene	ug/Kg			ND	12	ND	20	ND	11
Methyl Ethyl Ketone	ug/Kg	100,000	120	ND	71	ND	120	ND	69
Methyl t-butyl ether (MTBE)	ug/Kg	100,000	930	ND	24	ND	39	ND	23
Methylene chloride	ug/Kg	100,000	50	ND	12	ND	20	ND	11
Naphthalene	ug/Kg			ND	12	ND	20	ND	11
n-Butylbenzene	ug/Kg	100,000	12,000	ND	12	ND	20	ND	11
n-Propylbenzene	ug/Kg	100,000	3,900	ND	12	ND	20	ND	11
o-Xylene	ug/Kg			ND	12	ND	20	ND	11
p-Isopropyltoluene	ug/Kg			ND	12	ND	20	ND	11
sec-Butylbenzene	ug/Kg	100,000	11,000	ND	12	ND	20	ND	11
Styrene	ug/Kg			ND	12	ND	20	ND	11
tert-Butylbenzene	ug/Kg	100,000	5,900	ND	12	ND	20	ND	11
Tetrachloroethene	ug/Kg	19,000	1,300	ND	12	ND	20	ND	11
Tetrahydrofuran (THF)	ug/Kg			ND	24	ND	39	ND	23
Toluene	ug/Kg	100,000	700	ND	12	ND	20	ND	11
Total Xylenes	ug/Kg		260	ND	12	ND	20	ND	11
trans-1,2-Dichloroethene	ug/Kg	100,000	190	ND	12	ND	20	ND	11
trans-1,3-Dichloropropene	ug/Kg			ND	12	ND	20	ND	11
trans-1,4-dichloro-2-butene	ug/Kg			ND	24	ND	39	ND	23
Trichloroethene	ug/Kg	21,000	470	ND	12	ND	20	ND	11
Trichlorofluoromethane	ug/Kg			ND	12	ND	20	ND	11
Trichlorotrifluoroethane	ug/Kg			ND	12	ND	20	ND	11
Vinyl chloride	ug/Kg	900	20	ND	12	ND	20	ND	11

RL Exceeds Criteria (shaded)

TABLE 10
Rock Outcrop Overburden Soil Sampling Results - SVOCs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102									
	Lab Sample Id			BF45893		BF45894		BF45895	
	Collection Date			9/25/2013		9/25/2013		9/25/2013	
	Client Id	NY375-6.8b	NY375-6.8a	**RC-1**		**RC-2**		**RC-3**	
	Matrix	**Track 2**	**Track 1**	Soil		Soil		Soil	
Project Id : LARCHMONT		Restricted	Unrestricted						
	Units	Residential	Use	Result	RL	Result	RL	Result	RL
Semivolatiles By SW 8270									
1,2,4,5-Tetrachlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2,4-Trichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,2-Diphenylhydrazine	ug/Kg			ND	490	ND	430	ND	430
1,3-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
1,4-Dichlorobenzene	ug/Kg			ND	340	ND	300	ND	300
2,4,5-Trichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4,6-Trichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dichlorophenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dimethylphenol	ug/Kg			ND	340	ND	300	ND	300
2,4-Dinitrophenol	ug/Kg			ND	780	ND	680	ND	690
2,4-Dinitrotoluene	ug/Kg			ND	340	ND	300	ND	300
2,6-Dinitrotoluene	ug/Kg			ND	340	ND	300	ND	300
2-Chloronaphthalene	ug/Kg			ND	340	ND	300	ND	300
2-Chlorophenol	ug/Kg			ND	340	ND	300	ND	300
2-Methylnaphthalene	ug/Kg			ND	340	ND	300	ND	300
2-Methylphenol (o-cresol)	ug/Kg	100,000	330	ND	340	ND	300	ND	300
2-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
2-Nitrophenol	ug/Kg			ND	340	ND	300	ND	300
3&4-Methylphenol (m&p-cresol)	ug/Kg			ND	490	ND	430	ND	430
3,3'-Dichlorobenzidine	ug/Kg			ND	340	ND	300	ND	300
3-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
4,6-Dinitro-2-methylphenol	ug/Kg			ND	1,400	ND	1,200	ND	1,300
4-Bromophenyl phenyl ether	ug/Kg			ND	490	ND	430	ND	430
4-Chloro-3-methylphenol	ug/Kg			ND	340	ND	300	ND	300
4-Chloroaniline	ug/Kg			ND	340	ND	300	ND	300
4-Chlorophenyl phenyl ether	ug/Kg			ND	340	ND	300	ND	300
4-Nitroaniline	ug/Kg			ND	780	ND	680	ND	690
4-Nitrophenol	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Acenaphthene	ug/Kg	100,000	20,000	ND	340	ND	300	ND	300
Acenaphthylene	ug/Kg	100,000	100,000	ND	340	ND	300	ND	300
Acetophenone	ug/Kg			ND	340	ND	300	ND	300
Aniline	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Anthracene	ug/Kg	100,000	100,000	ND	340	ND	300	ND	300
Benz(a)anthracene	ug/Kg	1,000	1,000	760	340	810	300	560	300
Benzidine	ug/Kg			ND	590	ND	510	ND	520
Benzo(a)pyrene	ug/Kg	1,000	1,000	780	340	930	300	550	300
Benzo(b)fluoranthene	ug/Kg	**1,000**	1,000	**1,400**	340	**2,200**	300	**1,500**	300
Benzo(ghi)perylene	ug/Kg	100,000	100,000	440	340	ND	300	ND	300
Benzo(k)fluoranthene	ug/Kg	3,900	800	470	340	690	300	340	300
Benzoic acid	ug/Kg			ND	1,400	ND	1,200	ND	1,300
Benzyl butyl phthalate	ug/Kg			ND	340	ND	300	ND	300
Bis(2-chloroethoxy)methane	ug/Kg			ND	340	ND	300	ND	300
Bis(2-chloroethyl)ether	ug/Kg			ND	490	ND	430	ND	430
Bis(2-chloroisopropyl)ether	ug/Kg			ND	340	ND	300	ND	300
Bis(2-ethylhexyl)phthalate	ug/Kg			ND	340	ND	300	ND	300
Carbazole	ug/Kg			ND	730	ND	640	ND	650
Chrysene	ug/Kg	**1,000**	1,000	**1,000**	340	**1,200**	300	760	300
Dibenz(a,h)anthracene	ug/Kg	330	330	ND	340	ND	300	ND	300
Dibenzofuran	ug/Kg		7,000	ND	340	ND	300	ND	300
Diethyl phthalate	ug/Kg			ND	340	ND	300	ND	300
Dimethylphthalate	ug/Kg			ND	340	ND	300	ND	300
Di-n-butylphthalate	ug/Kg			ND	340	ND	300	ND	300
Di-n-octylphthalate	ug/Kg			ND	340	ND	300	ND	300
Fluoranthene	ug/Kg	100,000	100,000	1,600	340	1,500	300	970	300
Fluorene	ug/Kg	100,000	30,000	ND	340	ND	300	ND	300
Hexachlorobenzene	ug/Kg			ND	340	ND	300	ND	300
Hexachlorobutadiene	ug/Kg			ND	340	ND	300	ND	300
Hexachlorocyclopentadiene	ug/Kg			ND	340	ND	300	ND	300
Hexachloroethane	ug/Kg			ND	340	ND	300	ND	300
Indeno(1,2,3-cd)pyrene	ug/Kg	500	500	370	340	ND	300	ND	300
Isophorone	ug/Kg			ND	340	ND	300	ND	300
Naphthalene	ug/Kg	100,000	12,000	ND	340	ND	300	ND	300
Nitrobenzene	ug/Kg			ND	340	ND	300	ND	300
N-Nitrosodimethylamine	ug/Kg			ND	490	ND	430	ND	430
N-Nitrosodi-n-propylamine	ug/Kg			ND	340	ND	300	ND	300
N-Nitrosodiphenylamine	ug/Kg			ND	490	ND	430	ND	430
Pentachloronitrobenzene	ug/Kg			ND	490	ND	430	ND	430
Pentachlorophenol	ug/Kg	6,700	800	ND	490	ND	430	ND	430
Phenanthrene	ug/Kg	100,000	100,000	810	340	820	300	540	300
Phenol	ug/Kg	100,000	330	ND	340	ND	300	ND	300
Pyrene	ug/Kg	100,000	100,000	1,200	340	1,200	300	750	300
Pyridine	ug/Kg			ND	490	ND	430	ND	430

RL Exceeds Criteria

Result Exceeds Criteria

TABLE 11
Rock Outcrop Overburden Soil Sampling Results - Metals and PCBs

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102	Lab Sample Id Collection Date Client Id Matrix			BF45893 9/25/2013 **RC-1** Soil		BF45894 9/25/2013 **RC-2** Soil		BF45895 9/25/2013 **RC-3** Soil	
Project Id : LARCHMONT	Units	NY375-6.8b **Track 2** Restricted Residential	NY375-6.8a **Track 1** Unrestricted Use	Result	RL	Result	RL	Result	RL
Metals, Total									
Aluminum	mg/Kg			23,400	72	24,200	68	20,500	70
Antimony	mg/Kg			BRL	4.8	BRL	4.5	BRL	4.7
Arsenic	mg/Kg	16	13	8.3	1	10.5	0.9	13	0.9
Barium	mg/Kg	400	350	182	0.48	221	0.45	156	0.47
Beryllium	mg/Kg	72	7.2	0.88	0.38	1	0.36	0.71	0.38
Cadmium	mg/Kg	4.3	2.5	2.67	0.48	2.65	0.45	1.93	0.47
Calcium	mg/Kg			8,340	72	4,100	6.8	2,690	70
Chromium	mg/Kg			37.3	0.48	36.8	0.45	30.1	0.47
Cobalt	mg/Kg			20.8	0.48	20.5	0.45	11.3	0.47
Copper	mg/kg	270	50	109	4.8	123	4.5	82.2	0.47
Iron	mg/Kg			34,200	72	30,000	68	25,700	70
Lead	mg/Kg	**400**	63	311	4.8	**403**	4.5	223	4.7
Magnesium	mg/Kg			11,000	72	8,780	68	5,400	70
Manganese	mg/Kg	2,000	1,600	560	4.8	1,450	4.5	786	4.7
Mercury	mg/Kg	0.81	0.18	0.27	0.1	0.47	0.1	0.22	0.09
Nickel	mg/Kg	310	30	36	0.48	32.8	0.45	24.4	0.47
Potassium	mg/Kg			5,360	72	2,250	68	1,460	70
Selenium	mg/Kg	180	3.9	BRL	2	BRL	2	BRL	1.9
Silver	mg/Kg	180	2	BRL	0.48	BRL	0.45	BRL	0.47
Sodium	mg/Kg			299	7.2	359	6.8	144	7
Thallium	mg/Kg			BRL	4.3	BRL	4.1	BRL	4.2
Vanadium	mg/Kg			123	4.8	118	4.5	76.4	0.47
Zinc	mg/Kg	10,000	109	261	4.8	247	4.5	161	4.7
PCBs By SW 8082									
PCB-1016	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1221	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1232	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1242	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1248	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1254	ug/Kg	1,000	100	ND	97	ND	83	ND	87
PCB-1260	ug/Kg	1,000	100	110	97	84	83	ND	87
PCB-1262	ug/Kg			ND	97	ND	83	ND	87
PCB-1268	ug/Kg			ND	97	ND	83	ND	87

Result Exceeds Criteria (shaded)

TABLE 12
Rock Outcrop Overburden Soil Sampling Results - Pesticides and Herbicides

Phoenix Environmental Labs 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06040 (860) 645-1102 Project Id : LARCHMONT	Lab Sample Id Collection Date Client Id Matrix Units	NY375-6.8b **Track 2** Restricted Residential	NY375-6.8a **Track 1** Unrestricted Use	BF45893 9/25/2013 **RC-1** Soil Result	RL	BF45894 9/25/2013 **RC-2** Soil Result	RL	BF45895 9/25/2013 **RC-3** Soil Result	RL
Pesticides By SW8081									
4,4' -DDD	ug/Kg	13,000	3.3	ND	2.9	8.6	8	ND*	4.4
4,4' -DDE	ug/Kg	8,900	3.3	13	2.9	16	8	14	8.4
4,4' -DDT	ug/Kg	7,900	3.3	63	2.9	32	8	37	8.4
a-BHC	ug/Kg	480	20	ND	4.7	ND	4	ND	4.2
Alachlor	ug/Kg			ND	4.7	ND	4	ND	4.2
Aldrin	ug/Kg	97	5	ND	1.4	ND	1.2	ND	1.3
b-BHC	ug/Kg	360	36	ND	4.7	ND	4	ND	4.2
Chlordane	ug/Kg			ND	14	ND	12	ND	13
d-BHC	ug/Kg	100,000	40	ND	4.7	ND	4	ND	7.9
Dieldrin	ug/Kg	200	5	ND*	6.8	ND	4	ND	3.9
Endosulfan I	ug/Kg	24,000	2,400	ND	4.7	ND	4	ND	4.2
Endosulfan II	ug/Kg	24,000	2,400	ND	9.3	ND	8	ND	8.4
Endosulfan sulfate	ug/Kg	24,000	2,400	ND	9.3	ND	16	ND	8.7
Endrin	ug/Kg	11,000	14	ND	9.3	ND	8	ND	8.4
Endrin aldehyde	ug/Kg			ND	9.3	ND	8	ND	8.4
Endrin ketone	ug/Kg			ND	9.3	ND	8	ND	8.4
g-BHC	ug/Kg	1,300	100	ND	1.4	ND	1.2	ND	1.3
Heptachlor	ug/Kg	2,100	42	ND	5.3	ND	2.5	ND	3.5
Heptachlor epoxide	ug/Kg			ND	4.7	ND	4	ND	4.2
Methoxychlor	ug/Kg			ND	47	ND	40	ND	42
Toxaphene	ug/Kg			ND	47	ND	40	ND	42
Chlorinated Herbicides By SW8151									
2,4,5-T	ug/Kg			ND	61	ND	53	ND	54
2,4,5-TP (Silvex)	ug/Kg	58,000	3,800	ND	61	ND	53	ND	54
2,4-D	ug/Kg			ND	61	ND	53	ND	54
2,4-DB	ug/Kg			ND	610	ND	530	ND	540
Dalapon	ug/Kg			ND	61	ND	53	ND	54
Dicamba	ug/Kg			ND	120	ND	100	ND	110
Dichloroprop	ug/Kg			ND	61	ND	53	ND	54
Dinoseb	ug/Kg			ND	120	ND	100	ND	110

RL Exceeds Criteria (light shading)

Result Exceeds Criteria (dark shading)

APPENDIX A

Quality Assurance Project Plan (QAPP)

QUALITY ASSURANCE PROJECT PLAN

Chatsworth Coal and Supply Site
North Avenue and 2101 Palmer Avenue
Larchmont, New York

December 16, 2013

Prepared For:

WB Pinebrook Associates, LLC
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Richard D. Galli

12/16/13
Date

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APPENDICES

1. INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been prepared as a supplement to the Remedial Investigation Work Plan for investigation of the subject Site known as the Former Chatsworth Coal and Supply Site ("the Site"). The Site was accepted into the Brownfield Cleanup Program (BCP) and assigned BCP Site Number C360132, in a letter from the New York State Department of Environmental Conservation (NYSDEC), dated October 24, 2013.

This Site specific QAPP describes the measures to be taken in the field and in the laboratory to ensure that samples collected during the investigation are collected, handled, and analyzed in an appropriate manner. This QAPP was developed to assure that all environmental data generated for the NYSDEC, are scientifically valid, representative, and of known and acceptable precision and accuracy.

2. PROJECT DESCRIPTION

The subject Site is a currently underutilized property consisting of 2 adjacent tax parcels each approximately 0.7 acres in size, located just south of the Metro North Railway in Larchmont, New York. The Site has been approved for construction of 51 affordable housing units, contained within two separate buildings, each with on-grade parking below.

The Site has historically been utilized for coal storage purposes and contains the remains of at least one former railway spur. Results from previous investigations confirmed the presence of Heavy Metals, Semi-Volatile Organic Compounds (SVOCs), Volatile Organic Compounds (VOCs), and the Pesticide 4-4'-DDT, in the soil and groundwater at the Site.

2.1 Project Organization and Responsibility

This section of the QAPP details the specific roles, activities, and responsibilities of key project participants, as well as the lines of responsibility and communication within and between organizations. Galli Engineering has been contracted by WB Pinebrook Associates, LLC, to provide services pertaining to the planning and implementation of remedial measures at the Site, as required under the BCP.

Galli Engineering's technical program management responsibility resides with Mr. Richard Galli, President and Project Director. The Project Director will assign senior technical personnel to provide their expertise for the required technical activities and will assure consistency in technical approach and product deliverables. On a project specific basis, Mr. Galli is responsible for technical review of reports to ensure that the quality of data and reports are technically sound and complete, and suitable for the project objectives. Mr. Galli will report technical progress to communications recipients as specified in the Brownfield Cleanup Agreement (BCA).

The Galli Engineering project manager, a senior scientist or engineer, will supervise technical activities and will draw from Galli Engineering's staff of qualified specialists, which includes geologists, engineers, and environmental scientists, to perform the specific project activities associated with this groundwater monitoring program. The organizational structure provided below assures that the Galli Engineering team is responsive and that there is a direct line of communication to senior management, the client and the NYSDEC. The project organization chart is presented in **Figure 1**. The project personnel and their responsibilities are indicated below.

- Project Manager (Richard Galli, PE, President Galli Engineering, P.C.) – The Project Manager will ensure that the overall project objectives are met and that the work plan, QAPP and health and safety plan (HASP) are followed throughout all phases of this project. He will be responsible for the development and implementation of the sampling work plan, as well as the assignment of field sampling personnel and the coordination of all project activities and subcontractors. He will be responsible for the submission of samples to the analytical laboratory, and will be the recipient of analytical and field reports. He is responsible for the compilation of data and technical report preparation. He will convey data to the Quality Assurance Coordinator for review.

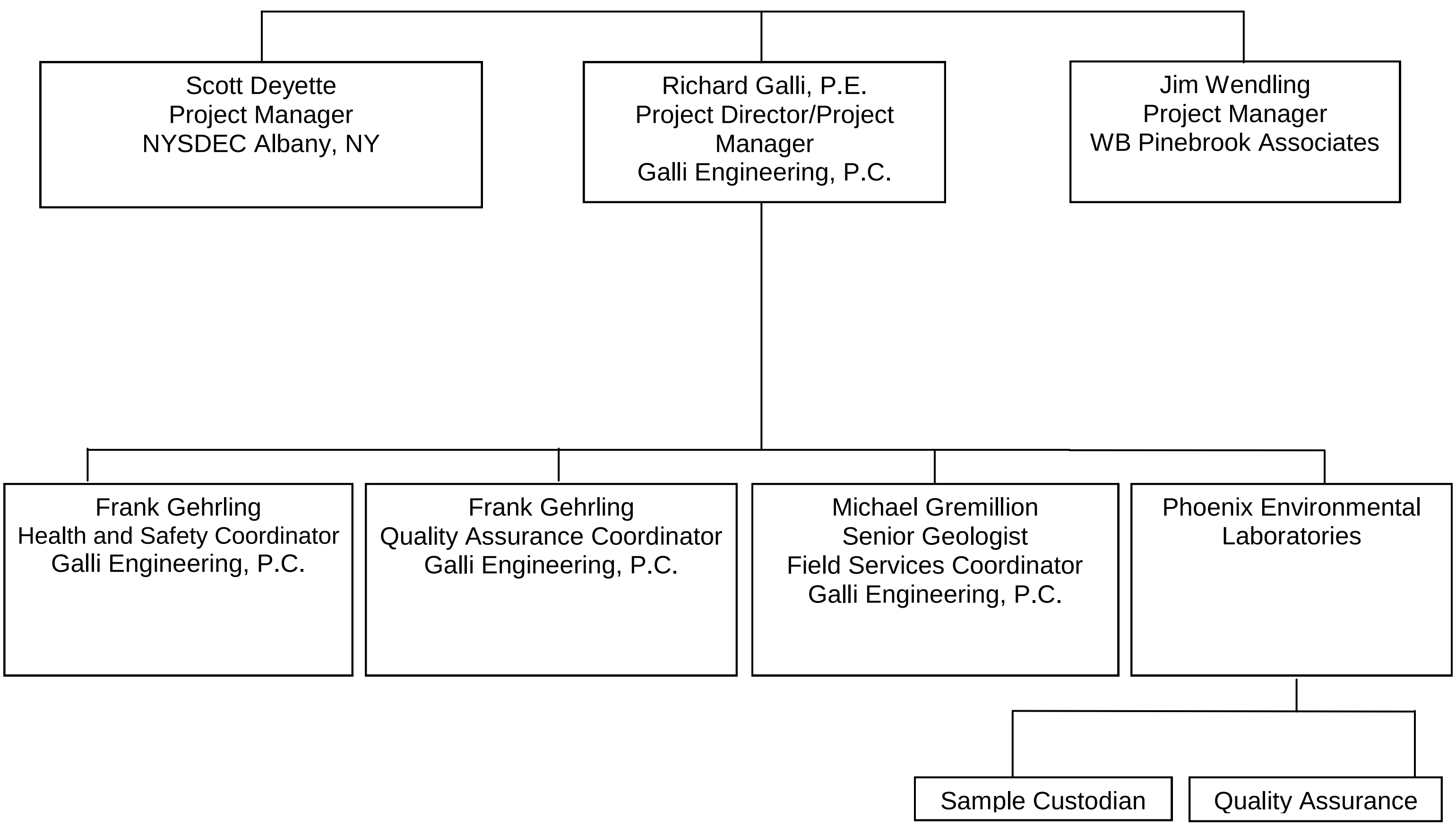
- Quality Assurance Coordinator (Mr. Frank Gehrling, Senior Geologist) – The Quality Assurance Coordinator (QAC) will be responsible for ensuring that the quality of the data and the reports are suitable for the project objectives. His primary QA responsibilities will be to provide review and guidance on all quality aspects of the project. He will review and validate all sample collection procedures and analytical results. As the QAC, he will have authority to approve or disapprove project work plans, specific analyses and final reports. The QAC will work closely with the laboratory, the project manager and field personnel to ensure that the QAPP is being implemented. The QAC will report to the Project Manager.

- Health and Safety Coordinator (Mr. Frank Gehrling, Senior Geologist) – The Health and Safety Coordinator (HSC) will be responsible for implementation of the Site Health and Safety Plan (HASP) that conforms to applicable health and safety requirements to ensure that health and safety is not compromised during on-Site environmental activities. The HASP provides Site task specific health and safety requirements that are to be followed during fieldwork to ensure that workers are properly protected while meeting the objectives of the QAPP.

- Field Services Coordinator (Mr. Michael Gremillion, Senior Geologist) – The Field Service Coordinator (FSC) will be responsible for sample collection and monitoring activities at the Site. The FSC will ensure that sample collection is performed according to methods detailed in Section 5 of this report, entitled Sampling Procedures, and will ensure that the requirements and objectives of the QAPP for the collection are met.

- Laboratory Sample Custodian – The laboratory sample custodian will be responsible for receiving, logging and storing samples as they are submitted to the analytical laboratory from Galli Engineering. The sample custodian will ensure the completeness of the chain of custody form, which contains specific information such as sample collection data, analytical parameters, and analysis priority. The sample custodian will also ensure that holding times are within requirements and that sample custody is maintained.

Figure 1 - Project Organization Chart



3. MEASUREMENT PERFORMANCE CRITERIA

3.1. DATA QUALITY OBJECTIVES

The overall objective of the sampling and analysis activities addressed herein is to achieve an acceptable level of confidence in the analytical data generated in order to evaluate the quality of soil and groundwater at the subject property. These data will be used to confirm the level of contamination on-Site pursuant to the BCP; to characterize the soil for removal from the Site; to determine if groundwater impacts have occurred; and to confirm that program-required cleanup objectives have been met. The methods and the procedures used to implement and achieve the data quality objectives (DQOs) are described throughout this QAPP.

Data Quality Objectives are qualitative and quantitative statements that specify the purpose, quality, and/or quantity of the environmental data required to support management and remedial decisions at the Site. DQOs are predicated in accordance with the anticipated end uses of the data that is to be collected. Data collected typically will be used to meet the following DQOs:

- Determine if there is an immediate threat to public health or the environment.
- Locate and identify potential sources of contamination.
- Characterize the extent of impact from contamination.
- Determine if there is a long-term risk from exposure to the Site.
- Determine potential remediation and long-term stewardship strategies (if necessary).

Data quality indicators (DQI) are qualitative and quantitative descriptors used to interpret the degree of acceptability or usability of data. The five principal DQIs are (1) precision, (2) accuracy, (3) representativeness, (4) comparability, and (5) completeness. Representativeness and comparability are qualitative parameters incorporated into the design and rationale of the sampling plan. Representativeness is achieved by selecting sampling locations that typify the survey areas. Comparability of data is accomplished by using only New York State Department of Environmental Conservation (NYSDEC) or United States Environmental Protection Agency (U.S. EPA) approved sampling and analytical methods. The three quantitative measurements, precision, accuracy, and completeness, are defined below.

When analyzing environmental samples, all measurements will be made so that results are reflective of the medium and conditions being measured. The level of detail and data quality needed will vary with the intended use of the data. DQOs typically are assessed by evaluating the precision, accuracy, representativeness, completeness, and comparability of all aspects of the data collection process, defined as follows:

3.1.1. Data Precision

Precision is a measure of agreement among replicate measurements of the same property under similar conditions. Precision is achieved by using consistent sampling procedures and measurement techniques established for a parameter or an analyte ("prescribed similar conditions"). Precision is assessed through calculation of relative percent difference (RPD) or relative standard deviation (RSD). Precision is calculated for laboratory duplicates, field duplicate samples, and matrix spike/matrix spike duplicates (MS/MSD). Field duplicate samples will be collected at a frequency of one per sample batch.

Laboratory duplicate samples, separate from field duplicate samples, will be analyzed to gauge analytical precision. The designated laboratory will analyze duplicate samples for each matrix under investigation at the frequency specified in Section 10 of this QAPP. Representative samples will be selected and analyzed in duplicate, and two portions of a representative sample will be spiked with matrix compounds and analyzed in duplicate. The results of these two analyses will be compared to assess the precision of the analytical system. Table 4.1 lists acceptance criteria for accuracy, precision, and completeness for each of the analytical methods specified. The criteria (predetermined acceptance limits) are expressed as numerical values.

3.1.2. Accuracy

Accuracy is the measure of the propinquity of an individual measurement or average number of measurements to the true value (known concentration). Accuracy includes a combination of random error (precision) and systematic error (bias) components that are due to sampling and analytical operations. Accuracy is expressed as the percent difference between a measurement and an accepted or true value.

3.1.3. Completeness

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected under ideal conditions. Completeness (percent) is calculated by dividing the number of valid measurements by the number of planned measurements and multiplying by one hundred. Valid measurements include unqualified and estimated results that are usable for data interpretation. Estimated results cannot be verified as precise and accurate, but may be usable as long as associated limitations are considered by the data users and project DQOs can be met. Rejected results or results not reported due to sample loss or error negatively impact completeness. Completeness goals for groundwater samples are more stringent due to the small number of groundwater samples scheduled for collection.

Completeness will be evaluated by carefully comparing project objectives with the proposed data acquisition scheme and the resulting potential data gaps in the required information. The goal for completeness for this project is greater than 95 percent.

3.1.4. Representativeness

Representativeness is the degree to which sampling data accurately and precisely depicts selected characteristics such as parameter variations at a sampling point or an environmental condition.

3.1.5. Comparability

Comparability is the degree of confidence with which one data set can be compared to another.

To assess if environmental measurements are of an appropriate quality, the general requirements above will be examined and compared to agency-recommended parameters when available. Calculation of precision and accuracy should be specified in the Site-specific work plan and/or SSQA. Samples should be collected in a manner so they are representative of both the chemical composition and physical state of the sample at the time of sampling. To ensure comparability, all data will be reported as ^{o} Celsius (flash point), pH units, µg/l or mg/l for water and liquids, µg/kg or mg/kg for soil, sediment or other solids, and mg/m^3 for air. Comparability is further addressed by using appropriate field and laboratory methods that are consistent with current standards of practice as approved by EPA.

Table 3.1 Reporting Limits and Analytical Data Quality Objectives for Groundwater Analysis

Analysis (Dissolved)	Reference Method	Units	Target Reporting Limits (TOGS-WQ/GA Standards)	Precision Objectives		Accuracy Objectives		Completeness (%)
				Field Duplicate Analysis (RPD)	MS/MSD Duplicate Analysis (RPD)	Matrix Spike Analyses (%Recovery)	Laboratory Control Sample Analyses (%Recovery)	
Antimony	(SW846) EPA 204.2 or 200.7	mg/L	0.003	< 50	< 20	85-120	85-120	95
Arsenic	(SW846) EPA 206.2	mg/L	0.025	< 50	< 20	85-120	85-120	95
Beryllium	(SW846) EPA 210.2	mg/L	0.003	< 50	< 20	85-120	85-120	95
Cadmium	(SW846) EPA 213.2 or 200.7	mg/L	0.005	< 50	< 20	85-120	85-120	95
Chromium	(SW846) EPA 218.2 or 200.7	mg/L	0.05	< 50	< 20	85-120	85-120	95
Copper	(SW846) EPA 220.2 or 200.7	mg/L	0.2	< 50	< 20	85-120	85-120	95
Cyanide	(SW846) EPA 335.2/9010	mg/L	0.2	< 50	< 20	80-120	80-120	95
Hexavalent Chromium	(SW846) EPA 218.5/7196	mg/L	0.05	< 50	< 20	85-120	85-120	95
Lead	(SW846) EPA 239.2 or 200.7	mg/L	0.025	< 50	< 20	85-120	85-120	95
Mercury	(SW846) EPA 245.2	mg/L	0.0007	< 50	< 20	85-120	85-120	95
Nickel	(SW846) EPA 249.2 or 200.7	mg/L	0.1	< 50	< 20	85-120	85-120	95
Selenium	(SW846) EPA 270.2 or 200.7	mg/L	0.01	< 50	< 20	85-120	85-120	95

Analysis (Dissolved)	Reference Method	Units	Target Reporting Limits (TOGS-WQ/GA Standards)	Precision Objectives		Accuracy Objectives		Completeness (%)
				Field Duplicate Analysis (RPD)	MS/MSD Duplicate Analysis (RPD)	Matrix Spike Analyses (%Recovery)	Laboratory Control Sample Analyses (%Recovery)	
Silver	(SW846) EPA 272.2 or 200.7	mg/L	0.05	< 50	< 20	85-120	85-120	95
Thallium	(SW846) EPA 279.2 or 200.7	mg/L	0.0005	< 50	< 20	85-120	85-120	95
Zinc	(SW846) EPA 289.2 or 200.7	mg/L	5.0	< 50	< 20	85-120	85-120	95

<u>Notes:</u>

mg/L – milligram per liter

MS/MSD – matrix spike, matrix spike duplicate

RPD – Relative Percent Difference

SW – Solid Waste

TABLE 3.2 DUPLICATE FREQUENCIES

ACTIVITY	FREQUENCY	BENEFIT
Field Duplicate	one in 20	Data shows precision of analytical scheme from sampling through analysis when compared with results of sample. This represents a blind QC sample to the laboratory. Collect an additional amount of sample.
Laboratory Duplicate	one in 20	Data shows precision of the analytical scheme within the laboratory. The difference between this precision and that of the field duplicate represents the precision of the analytical method.
Laboratory Spike	one in 20	Data shows how well the analysis of interest can be performed, and recovered from the sample matrix. Such information is useful when reported value is near an action level, but the sample exhibits poor recovery.
Matrix Spike Matrix Duplicate (inorganic)	one in 20	Data shows precision of laboratory analysis when compared with results of sample. Collect an additional amount of sample for each analysis. Analyzed as unspiked sample.
Matrix Spike (inorganic)	one in 20	Data shows matrix effects from recovery of spiked analysis. Collect an additional amount for each analysis. Analyzed as a spike sample.
Matrix Spike/Matrix Spike Duplicate	one in 20	Data shows precision of analysis when compared with matrix spike duplicate and matrix effects from recovery of spiked analysis. Collect an additional amount for each analysis. Analyzed as a spike.
Field Blank/Equipment Blank	As required by the DQOs	Data demonstrates that sampling equipment was clean prior to use. Pass a sample of reagent water through collection device. Submit for analysis of analytes of concern.
Trip Blank	As required by the DQOs	Data demonstrates that sample was not contaminated with volatile organics by other samples in shipping container, laboratory or outside influences.
Background or Reference Sample	As required by the DQOs	Data provides baseline information to evaluate environmental impact.
Split Samples/Inter-laboratory Split Sample	When required to meet DQOs	Compare the quality of laboratory procedures of the permittee with State contracted laboratory procedures. Collect an additional amount of sample for each analysis.

NOTE: This table is provided to serve as a guide only; AQA/AQC sample requirements should be developed on a Site-specific basis. Laboratory blanks and surrogate spikes are method specific and are not included in this table (see NYSDEC ASP). For information on sampling refer to the *NYSDEC, Division of Water Sampling Manual.*

4. SAMPLING PROCEDURES

In order to achieve the Data Quality Objectives discussed with Mr. Scott Deyette of the NYSDEC, soil and groundwater samples will be collected according to the Remedial Investigation Work Plan (RIWP). The proposed soil boring/temporary monitoring well locations and soil vapor implants are included on the Sampling Location Plan, included as Appendix A.

The following sections describe the sampling procedures for the collection of soil, groundwater and soil vapor samples at the subject Site, as well as the quality control requirements.

4.1. Soil Samples

4.1.1. Soil Sample Collection

Soil boring sampling will be via a Geoprobe equipped with a Macro-Core sampler utilizing single use, clear acetate liners. A new liner will be utilized each time the sampler is placed in the Geoprobe. The liner will be removed from the sampling tool and split by the driller. The soil in the split tube will be quickly screened with the PID to detect volatile organic compounds. Discrete soil samples will be taken from the tube either by newly gloved hand or utilizing single use scoops. As discussed in the RIWP, approximately five (5) surface soil samples will be collected at select locations from an approximate depth of 0-2" below land surface (bls). In addition, one soil sample will be collected from each of the six (6) proposed boreholes from the interval showing the greatest potential for contamination, based upon the field observations including PID readings, staining and/or petroleum odors.

The above sampling method for VOCs in soil is meant to minimize the disturbance of the sample; and thereby maximize the amount of VOC retained in the sample. The grab sample with the highest PID reading would be analyzed for VOCs. This sampling method would bias the sampling for VOCs in soil toward the sample with the highest VOC concentration. PID readings should be recorded, but are not to be compared to any external standard. Based on the same rational of sample collection with bias towards the highest concentrations, soil from this interval will also be utilized for collection of the remaining samples for analysis of; TAL Metals, SVOCs, PCBs, Pesticides and Herbicides.

4.1.2. Sampling Handling and Analysis

Upon collection, each sample will be placed in new sample bottles and labeled with sampling identification, date and time of collection. Samples will be placed on ice, in a secure cooler, and following proper chain of custody procedures, transported by laboratory courier to Phoenix Environmental Laboratories, NYS DOH ELAP approved laboratory. Each sample will be analyzed for:

Method 8260 - Volatile Organic Compounds
Method 8270 - Semi-Volatile Organic Compounds
Method 6010B/7471A-PP - TAL Metals
Hexavalent Chromium
Mercury
PCBs
Pesticides
Herbicides

If required, additional samples may be collected and analyzed for required waste characterization parameters. The frequency of such sampling and analyses will be determined by the anticipated disposal Site requirements, as will be the additional analytes, which could include:

Method 8082-PCB,
Method 8081-Pesticides,
Method 8015-Diesel Range Organics,
Full TCLP Method SW1311, and
Hazardous Waste Characteristics (Reactivity, Ignitability, and Corrosivity)
Paint Filter Test

Galli Engineering field sampling personnel will wear clean nitrile gloves (or equivalent) during all sample collection procedures and equipment decontamination. Gloves will be changed if they become soiled and at any time when starting at a new sample location to prevent cross contamination. The contaminants present at this Site are not likely to pose any significant risk due to the low level of contaminants. The level of personal protection required will be determined pursuant to the Site specific Hasp.

4.2. Groundwater Samples

After a minimum of 24 hours, one set of groundwater samples will be collected from each of the three (3) new temporary monitoring wells as shown on the Site Plan with Sampling Locations, **Figure 2**, provided in **Appendix A**. All samples will be collected using methods consistent with Test Methods For Evaluating Solid Waste; SW-846, U.S. Environmental Protection Agency (EPA) Office of Solids Waste and Emergency Response, Washington, D.C. 3rd Edition 1986; and the U.S. EPA RCRA Ground Water Monitoring Technical Enforcement Guidance Document. Washington, DC. 1986.

Galli Engineering field sampling personnel will wear clean nitrile gloves (or equivalent) during all sample collection procedures and equipment decontamination. Gloves will be changed if they become soiled and at any time when starting at a new sample location to prevent cross contamination. The contaminants present at this Site are not likely to pose any significant risk due to the low level concentrations. The level of personal protection required will be determined pursuant to the Site specific Hasp.

Water levels will be measured in the three new temporary monitoring wells prior to sampling using a commercial electronic water level meter. The measurements are made by lowering a sensor slowly to the surface of water in the well. When the audible alarm sounds, the depth is recorded to the nearest 0.01 foot.

Once water level measurements have been recorded, the total volume of water in the well will be calculated (i.e., for a 2 inch well the volume is 0.17 gallons per one foot section of well casing which would be multiplied by the depth of water present in the well). This volume will be multiplied by the purging factor to determine the extraction volume. Galli Engineering's standard purging factor is 3 to 5 casing volumes; the exception to this standard is in the case of low yield wells. When purging low yield wells, the well is pumped to dryness once, and samples will be collected once sufficient sample volume is available. When full sample volumes cannot be collected due to time constraints or recharge rates, any samples will be collected within 24 hours of the end of the purge. Since historical groundwater analytical data are available for the Site, it has been determined that the groundwater will likely pose no significant risk due to the level of contaminants.

Galli Engineering will use dedicated single-use, bottom filling, environmental grade polypropylene bailers, equipped with new nylon line, to purge the wells and obtain groundwater samples. Therefore, no field decontamination of bailers, or other sampling equipment, will be necessary. The volume of purged water will be measured by discharging the purged water to a volumetric container and recording the results.

Groundwater samples collected from each of the monitoring wells will be analyzed for TAL Metals, Hexavalent Chromium, Mercury, VOCs, SVOCs, PCBs, Pesticides and Herbicides. Samples for dissolved metals analysis will not be filtered in the field consistent with guidelines presented in DER-10 at Subdivision 2.1(g). Permission to filter groundwater samples in the field may be requested in accordance with that subdivision in the event turbidity limits can not be achieved.

Sample containers to be used for the groundwater sample collection are specified by the analytical methodology. Galli Engineering will use new sample containers according to U.S. EPA protocols, which are compatible with the analytes of interest. Chemical preservatives, where necessary, will be added by the laboratory prior to shipment of the sample containers. Once a sample is collected, Galli Engineering’s field personnel will take the necessary steps to preserve the chemical and physical integrity of the samples during shipment and storage prior to analysis. All samples will be capped immediately after sample collection and labeled. Table 4.1 lists the sample parameters, containers, preservation, holding times and the analytical methods.

TABLE 4.1

SAMPLING CONTAINERS, PRESERVATION AND HOLDING TIMES

PARAMETER	MATRIX	CONTAINER	PRESERVATION	HOLDING TIMES
VOCs - Low Level (Extraction Method 5035) (Analysis Method 8260)	Soil	40 ml. - VOA vial w/TFE lined septum cap, Prepared with 5ml reagent water	4°C Frozen upon collection	Analyzed within 48 hours 7 Days (Frozen)
VOCs - High Level (Extraction Method 5035) (Analysis Method 8260)	Soil	40 ml. - VOA vial w/TFE lined septum cap, Prepared with 10ml Methanol	4°C	14 Days
VOCs (EPA Method 8260)	Water	40 ml. - VOA vial w/TFE lined septum cap	4°C	5 days for extraction, 40 days to analyze extract
SVOCs (EPA Method 8270)	Soil	4 oz - Glass wide-mouth w/TFE lined cap	4°C	5 days for extraction 40 days from extraction until analysis (1)
SVOCs (EPA Method 8270)	Water	1 liter - Amber glass w/TFE lined cap	4°C	5 days until extraction 40 days from extraction until analysis (1)
PCBs (EPA Method 8082)	Soil	4 oz - Glass wide-mouth w/TFE lined cap	None	5 days until extraction 40 days from extraction until analysis (1)
PCBs (EPA Method 8082)	Water	1 liter - Amber glass w/TFE lined cap	4°C	5 days until extraction 40 days from extraction until analysis (1)
Pesticides (EPA Method SW8061)	Soil	4 oz Glass wide-mouth w/TFE lined cap	None	5 days until extraction 40 days from extraction until analysis (1)
Pesticides (EPA Method SW8061)	Water	Amber glass w/TFE lined cap (1 liter)	4°C	5 days until extraction 40 days from extraction until analysis (1)
Herbicides (EPA Method SW8151)	Soil	4 oz Glass wide-mouth w/TFE lined cap	None	14 days
Herbicides (EPA Method SW8151)	Water	1 Liter - Amber glass w/TFE lined cap	None	7 days
TAL Metals (EPA Method SW6010)	Soil	4 oz Glass wide-mouth w/TFE lined cap	4°C	6 months
TAL Metals (EPA Method SW6010)	Water	Polyethylene 250 ml.	Dissolved: None Total: HNO_3 to pH<2.0 (2)	6 months

TABLE 4.1 (CONTINUED)

SAMPLING CONTAINERS, PRESERVATION AND HOLDING TIMES

PARAMETER	MATRIX	CONTAINER	PRESERVATION	HOLDING TIMES
Mercury (EPA Method SW7471)	Soil	4 oz Glass wide-mouth w/TFE lined cap	4°C	28 days
Mercury (EPA Method SW7471)	Water	Polyethylene (250 ml)	Total: None Dissolved: HNO_3	28 days
Hexavalent Chromium (EPA Method SW3060/7196)	Soil	2 oz Glass wide-mouth w/TFE lined cap	4°C	30 days
Hexavalent Chromium (EPA Method SW3060/7196)	Water	Polyethylene (250 ml)	None	24 hours

(1) Technical Times (time from sample collection until sample analysis) will be used to audit results.

(2) Sampling containers are supplied with preservative Acids by the analytical laboratory.

TAL Target Analyte List

Table 4.1 is provided as a guidance document only, for exact holding time requirements, the Contractor should consult with the NYSDEC BWAM.

Preservation requirements for most soil sampling analyses are limited to cooling to 4°C. However, the latest extraction method for VOCs using EPA Method 5053, includes either field freezing the low level VOC samples upon collection, or delivery to the analytical laboratory within 48 hours, upon which the samples are immediately frozen for a period of up to 7 days, or analyzed. In addition, the high level EPA Method 5053 soil VOA vials are preserved with 10 milliliters (ml) of methanol, and must also be kept at a temperature of 4°C until analyzed.

Samples will be collected in the following order:

1. VOCs
2. SVOCs
3. Metals
4. PCBs
5. Pesticides
6. Herbicides

Each set of samples will be packed on ice, in a secure cooler, following proper chain of custody procedures. The samples will be packaged and cushioned to prevent breakage and picked up by laboratory courier, for transportation to Phoenix Environmental laboratories of Manchester Connecticut, for analysis.

4.3. Soil Vapor Sampling

Collection of soil vapor samples in the vicinity of any proposed buildings is also a requirement of the Brownfield Cleanup Program. Therefore, this Remedial Investigation includes the installation and sampling of eight (8) temporary soil vapor implants and collection of two (2) ambient outdoor air samples.

The temporary soil vapor implants will be installed to a depth of approximately 4' below land surface and constructed using a ½" diameter x 6" long stainless steel screen connected to the surface by polyethylene tubing. The screened zone will be backfilled with clean well gravel to a depth approximately 1' above the screen, followed by a bentonite seal and concrete grout to the surface. The points will be allowed to set a minimum of overnight prior to sampling.

Soil vapor sampling will be performed for VOCs using EPA Method TO-15. Sampling will be performed using stainless steel vacuum canisters, supplied by the laboratory and calibrated for a minimum sampling duration of two hours at a flow rate not to exceed 0.20 liters per minute. Data collected during sampling will include the sampling location, sampling time and duration, and vacuum reading on canister at start and completion of sampling interval. After collection, samples will be transported by courier to Phoenix Laboratories, a NYS Certified ELAP Laboratory, located in Manchester, Connecticut, for analysis.

4.4. Field Documentation

Galli Engineering field sampling personnel will collect and accurately record relevant sample collection information including boring logs, and well purging water quality information, on a field sampling data sheet, which is legibly prepared and maintained for each sample location. The information documented on the field sampling data sheet includes the name of the person(s) performing the sample collection, the date, project information, Site location information, time of collection, analytes to be tested, and other specific information as may be necessary. For groundwater samples, additional information will include monitoring well location and condition, well depth measurements, casing and screen interval information, depth to water in the well, volume of purged water for each sample location, etc. The field sampling data sheets provide a record of tasks associated with sampling collection activities.

Galli Engineering field sampling personnel will prepare a label in indelible ink for each of the samples collected that includes the following information:

- Project Name
- Date And Time Of Sample Collection
- Sample Location
- Sample Number
- Initials of Sample Collector

A completed label will be affixed to each sample container.

Documentation procedures should be conducted in accordance with EPA's record keeping requirements. Work plans and final reports will be generated and submitted to DEC for review and approval.

Field QA/QC documentation for Site characterization reports and/or remedial action/risk management reports must consider the following details:

- Calibration and maintenance records for field instrumentation,
- Documentation of sample collection procedures,
- Reporting of any variances made in the field to sampling plans, SOPs or other applicable guidance documents,
- Reporting of all field analysis results,
- Documentation of sample custody (provide copies of chain-of-custody documents),
- Documentation of sample preservation, handling and transportation procedures,
- Documentation of field decontamination procedures (and if applicable, collection and analysis of equipment rinseate blanks),
- Collection and analysis of all required duplicate, replicate, background and trip blank samples, and
- Documentation of disposal of any investigation-derived wastes.

4.5. Sample Custody

Proper Chain-of-Custody procedures will be implemented. Once a sample is collected, containerized, and labeled, Galli Engineering personnel will immediately enter the appropriate information on the Chain-of-Custody form. This custody record will provide the necessary information to cross reference the sample number to the specific sampling location and will provide the date and time of collection as well as documentation of custody. The chain of custody document includes the following information:

- Project Name And Address
- Galli Engineering Project Manager
- Signature And Printed Name Of Sampler
- Date And Time Of Sample Collection
- Sample Type And Matrix
- Sample Number And Location
- Number Of Sample Containers Per Location
- Identification Of The Parameters For Which Sample Is To Be Analyzed
- Signature And Printed Name Of Relinquisher Of Samples
- Signature And Printed Name Of Receiver Of Samples
- Sample Turn Around Time
- QA/QC Type
- Any Comments And Special Instructions

A copy of a typical chain of custody document is provided in Appendix B.

All samples will be accompanied by a Chain of Custody form, which will be signed and dated with the time by Galli Engineering field sampling personnel. The Galli Engineering field sampling personnel will maintain custody of the samples until shipment or hand delivery to the analytical laboratory. Containers will be kept in a secure cooler, within visual contact of field sampling personnel, or in a locked vehicle or room. Only Galli Engineering field sampling personnel will have access to the samples. Chain of Custody documentation will accompany the samples to the analytical laboratory. If the samples are to be shipped, each sample container cooler will be affixed with a signed custody seal. The field chain of custody terminates upon laboratory receipt of the samples.

4.6. Laboratory Documentation

Once the samples reach the laboratory, the lab's sample custodian will accept custody of the samples and verify that the information on the sample labels matches that on the chain of custody form(s). The sample custodian will also check for any breakage or leakage that may have occurred during shipment or transport to the laboratory. The sample custodian will then enter the appropriate data into the laboratory tracking system during which a unique laboratory number will be assigned to each sample. The samples are then transferred to the appropriate analyst or the samples will be stored in a designated secure area.

Laboratory QA/QC documentation for Site characterization reports and/or remedial action/risk management reports must consider the following details:

- If the published analytical method used specifies QA/QC requirements within the method, those requirements must be met and the QA/QC data reported with the sample results;
- At a minimum, QA/QC samples must consist of the following items (where applicable): method/instrument blank, extraction/digestion blank, initial calibration information, initial calibration verification, continuing calibration verification, laboratory fortified blanks/laboratory control samples, duplicate, and matrix spikes/matrix spike duplicates;
- Documentation of appropriate instrument performance data such as internal standard and surrogate recovery.

5. CALIBRATION PROCEDURES AND FREQUENCY

5.1. Calibration

Calibration is the process of establishing the relationship of a measurement system output to a known stimulus or quantity. Generally, calibration procedures are required for both field and laboratory instrumentation. In essence, calibration is a reproducible reference point to which all sample measurements can be correlated. This section describes the calibration procedures and the calibration frequency.

5.2. Field Instruments

Field instruments expected to be used during this Remedial Investigation include an electronic water interface probe, utilized for measurement of depth to product and depth to water, and a Photoionization Detector (PID) used to scan samples for the presence of VOCs. No calibration is required for the interface probe, however between well locations the interface probe will be decontaminated using a solution of Alconox® environmental grade detergent and clean water.

The Photo-Ionization Detector (PID) set-up and calibration instructions are as follows:

Rae MiniRae 2000 P.I.D.
Operating Temp: 32 to 100°F or 0 to 43°C

Start-up/zeroing/Calibration

- Attach probe tip and hydrophobic filter by screwing it to the unit.
- Press the MODE button to turn the unit on and let it warm up for 5-10 minutes in clean ambient air.
- The unit will display its settings during the warm up sequence. NOTE: *If calibrating, now is a good time to fill a tedlar bag with isobutylene.*
- When the unit has finished its warm up it will display a ppm reading.
- To enter the calibration mode, simultaneously press the MODE and N/- buttons until the screen displays “Calibrate/ select Gas?”
- Press Y/+
- Ensure that the unit is drawing clean ambient air or from a zero air source.
- “Fresh air cal?” is displayed. Press Y/+.
- The unit will display “zero in progress” followed by “wait” and a 15 second countdown.

- When the unit is finished zeroing it will display "Zeroed! Reading 0.0 ppm."
- Press Mode once.
- The PID rental units supplied from Pine Environmental are set for calibration with 100 ppm Isobutylene. If your cal. Gas is 100 ppm isobutylene, skip the next five steps. If your gas is not 100 ppm, conduct the following:

<u>Changing the span value</u>

- From the "Span cal" screen, press the N/- button twice or until the screen reads
- "Change span value." Press Y/+.
- The screen will read "Cal gas = isobutylene, Span value = 0100. "Press the Mode button to move to cursor, and the Y/+ and N/- buttons to increase/decrease the span value to match your cylinder.
- When finished changing the value, press and hold the MODE button.
- The screen will read "Save?" Press the Y/+ button to save. The screen will read "Saved."
- Press the MODE button until "Span cal" is displayed.
- "Span cal? is displayed.
- Press Y/+. The screen will read "Cal gas = Isobutylene, Span value = 0100.0, Apply gas now!"
- Open and connect a full tedlar bag of isobutylene to the probe tip. If the pump sounds like its restricted, the bag is not enough. The unit will recognize the gas and start to span. The screen will read "Wait." while it counts down from 30 seconds. Some newer units will display, "Update data" after the countdown.
- When the countdown is finished the screen will read "cal'ed reading = 100 ppm" It should read within a few ppm of the span value.
- Press MODE once. The screen will read "cal done turn off gas." Remove and close the tedlar bag.
- Press the MODE button twice to return to the run mode. The unit should read 0.0 ppm without gas and 100ppm with gas.
- The P.I.D. is calibrated and now ready for use.

5.3. Laboratory Instruments

Laboratory instruments will be subject to all the QA/QC procedures stated in the lab's qualifications and certifications packages. Before samples are analyzed on an instrument, chemical or physical calibration standards will be analyzed to establish that the instrument is functioning properly with the desired sensitivity. Calibration solutions will be documented with the preparer's initials, date of preparation, concentration of solution, and standard materials used to prepare the solution. All standard materials used in the preparation of calibration solutions conform to the U.S. EPA, National Bureau of Standards (NBS).

6. SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Groundwater samples will be collected at the subject property according to the procedures described in Section 5.0. All samples will be submitted to a laboratory NYSDOH ELAP certified for the parameters of interest and able to provide a Category B data package per the July 2005 NYSDEC ASP. These samples will then be analyzed to determine the presence of;

1. VOCs – Extracted by EPA 5035 and analyzed by EPA Method 8260,
2. SVOCs - Analyzed by EPA Method 8270,
3. TAL Metals – Aluminum, Antimony, Arsenic, Barium, Berylium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium and Zinc
4. Hexavalent Chromium
5. PCBs
6. Pesticides
7. Herbicides

The soil and groundwater samples collected by Galli Engineering will be prepared and analyzed by the laboratory according to the matrix specific methods listed above from the following references.

1. Test Methods for Evaluating Solid Waste; SW-846. USEPA Office of Solids Waste and Emergency Response, Washington, D.C. 3rd Edition, 1986.
2. Standard Methods for the Analysis of Water and Wastewater, American Public Health Association, Washington, D.C. 16th Edition, 1985
3. EPA Water and Wastewater 600/4-79-020

The laboratory does not anticipate the need to modify standard procedures for referenced methods. The laboratory may use more stringent criteria based on statistical evaluation or laboratory practice. In such instances the laboratory-specific criteria will be used for data validation purposes as long as the criteria are more stringent than the targets set for this project. The reporting limits have been previously listed in Table 3.1.

7. DATA REDUCTION, VALIDATION, AND REPORTING

Data management, including chain-of-custody review and correction, data review, reduction and transfer to data management systems, quality control charts, quality control procedures, and sample receipt, storage and disposal, will be in accordance with applicable SOPs and accepted industry practices.

Documentation will be in accordance with applicable SOPs and accepted industry practices, and will include the sampling reports, copy of the chain-of-custody, and field QA controls with the analytical results. All sample documents will be carefully and legibly written in ink. Any corrections or revisions to sample documentation shall be made by lining through the original entry and initialing and dating any changes. Data reduction will occur in accordance with contractor analytical SOPs for each parameter. If difficulties are encountered during sample collection or sample analyses, a brief description of the problem will be provided in the sampling report prepared by contractor. Data reporting will be in accordance with applicable SOPs and will include, at a minimum:

- Sample documentation (location, date and time of collection and analysis, etc.)
- Chain-of-custody forms
- Initial and continuing calibration
- Determination and documentation of detection limits
- Analyte(s) identification
- Analyte(s) quantification
- Quality Control sample results
- Duplicate results

Adequate precautions will be taken during the reduction, manipulation, and storage of data in order to prevent the introduction of errors or the loss or misinterpretation of data.

To ensure that measurement data generated when performing environmental sampling activities are of an appropriate quality, all data will be validated. Data validation is a systematic procedure for reviewing a body of data against a set of established criteria to provide a specified level of assurance of its validity prior to its intended use. The techniques used must be applied to the body of the data in a systematic and uniform manner. The process of data validation must be close to the origin of the data, independent of the data production, and objective in its approach. The review will evaluate the data in terms of adherence to sampling and analysis protocols and to quality control criteria outlined in this QAPP. The criteria for data validation include checks for internal consistency, duplicate sample analysis, spike addition recoveries, instrument calibration and transcription errors. The acceptance or rejection of data, depending on the adherence to the quality control criteria, will be in a uniform and consistent manner based on the established validation criteria provided in this QAPP.

All data, as applicable, will be validated in accordance with EPA guidance, per Data Quality Objectives Process. Any deviations will be documented and provided with the analytical data report. When the individual who will prepare the Data Usability Summary Report (DUSR) is identified, that person's resume will be provided to DER for review and approval. The DUSR will be prepared in accordance with DER-10.

The raw data will be reported in concentrations to two significant figures. Premature rounding of intermediate results can significantly affect the final result. Therefore, the reported results will be rounded to the correct number of significant figures only after all calculations and manipulations are completed. As many significant figures as are warranted by the analytical method will be used in reporting calculations. Only data meeting the validation criteria will be reported. Percent recovery and relative percent difference values will also be reported using two significant figures. Compounds that are not detected will be reported as less than the analytical method detection limit.

The final analytical data reports will be submitted to the Galli Engineering Project Manager and Quality Assurance Coordinator for their review and acceptance of the data in terms of completeness with respect to technical requirements of the project. All data will be assessed for accuracy, precision, completeness, representativeness and comparability. This data will then be presented in a technical report prepared by Galli Engineering, P.C.

8. INTERNAL QUALITY CONTROL CHECKS

The work plan for this Site contains quality control requirements as they apply to each sampling task. Matrix spikes and duplicates will be analyzed per matrix in a sample group. For the purposes of this investigation the following quality control measures will be utilized by the laboratory:

Measure	Parameter	Frequency
Matrix Spike/Matrix Spike Duplicate	Organics	As necessary
Matrix Spike/Replicate	Inorganics	As necessary
Reagent Blank Sample	Organics & Inorganics	As necessary
Surrogate Spike Sample	Organics	As necessary
Calibration	Organics & Inorganics	As necessary
Field Blanks	Organics & Inorganics	1 per sampling
Trip Blanks	Organics & Inorganics	1 per cooler
Equipment Blanks	Organics & Inorganics	N/A
Field Replicates	Organics & Inorganics	N/A

9. PERFORMANCE AND SYSTEM AUDITS

Galli Engineering will document inspections and audits to confirm the quality or orderly progression of a portion of the work by outlining the procedures, acceptability of methods or personnel, qualifications, or other verifications of quality. Performance audits (performance samples) and system audits (Site inspections) of the fixed laboratories are performed by the New York State Department of Health as part of the laboratory certification process. No audits for laboratories are scheduled as part of this project. Galli Engineering will perform audits of field sampling and analysis operations periodically throughout the project to document the implementation of the QA program. Galli Engineering will perform audits of the laboratory and field operations at the discretion of the NYSDEC and if deemed necessary as part of a corrective action for a problem encountered with sampling and analytical data.

10. PREVENTIVE MAINTENANCE

Preventive maintenance activities are performed in order to prevent loss of data due to malfunctions or delay. Critical functions are identified for field and laboratory and contingencies are accordingly established.

In order to minimize downtime of field sampling and monitoring equipment, all equipment will be cleaned and visually inspected before and after each day of use. Where applicable, all equipment will be charged when not in use and calibrated each day.

The subcontracted analytical laboratory employs a qualified technician for analytical instrument maintenance. An inventory of spare parts is maintained to minimize instrument downtime. Laboratory balances are under service contracts to the manufacturers.

10.1. Field Activities

The critical functions in the field require that extra sampling containers be on hand in the field, ready for use. Field screening kits and reagents may also be maintained as appropriate. Alternative sources (such as an instrument rental agency) for field screening or health and safety related monitoring devices may be identified prior to going into the field. This contingency will prevent loss of data or delays.

10.2. Laboratory Activities

The laboratory QA/QC plan will outline a formal preventive maintenance program including contingencies for sending samples to an alternate NYS certified laboratory if samples requiring analysis within the regulatory holding times are going to be compromised. Major and critical equipment should be on a service contract or under a laboratory program staffed by equipment technicians capable of emergency service. Back-up instrumentation should be available for larger projects. Routine maintenance for equipment will be performed.

11. DATA ASSESSMENT PROCEDURES

The procedures used to assess the precision, accuracy, and completeness of the data generated will begin with a review of the field notes and documents that correspond to the laboratory data report being reviewed. Any unusual or questionable observations will be noted and compare to the corresponding data. The following will be considered for all data:

1. Shipping information.
2. Adherence to holding times.
3. Calibration documentation.
4. Comparison of field assigned sample numbers and laboratory assigned sample numbers.
5. Comparison of values assigned to QA/QC samples (field and trip blanks, duplicates, method blanks and laboratory spiked samples) and environmental samples.
6. Review of chromatograms/spectra for values and tentatively identified compounds.
7. Units of measure reported.
8. Laboratory calculations.
9. Laboratory determined method detection limits.
10. Sample documentation.

Any errors, mistakes or deviations from the analysis requested identified by the data assessment will be presented in a validation report developed by the QA/QC Officer. Based on the validation report, Galli Engineering, P.C., the data users, will determine whether the data is usable for their purposes.

12. CORRECTIVE ACTIONS

Once the final report is submitted, the DEC Project Manager will review the field duplicates to determine if they appear to indicate a problem with meeting quality objectives. If problems are indicated, the Project Manager will contact the contractor to discuss and attempt to reconcile the issue. Completeness will also be evaluated to determine if the completeness goal for this project has been met. If data quality indicators do not meet the project's requirements as outlined in this QAPP, the data may be discarded and re-sampling may occur. The Project Manager will determine the cause of the failure (if possible) and make the decision to discard the data and re-sample. If the failure is tied to the analyses, calibration and maintenance techniques will be reassessed as identified by the appropriate lab personnel. If the failure is associated with the sample collection and re-sampling is needed, the sampling methods and procedures will be reassessed as identified by the field audit process.

Corrective action will be undertaken by all parties to address specific problems as they arise. Corrective actions required will be identified through the use of control charts for chemical analyses, precision and accuracy data, through performance auditing, and through systems audits.

In the event corrective actions are required to rectify an out of control laboratory or field measurement system the following steps will be taken by the QA/QC Officer:

1. Identification and definition of the problem;
2. Assignment of responsibility for investigating the problem;
3. Investigation and determination of the cause of the problem;
4. Determination of a corrective action to eliminate the problem;
5. Assigning and accepting responsibility for implementing the corrective action;
6. Implementing the corrective action and evaluating its effectiveness; and
7. Verifying that the corrective action has eliminated the problem.

13. QUALITY ASSURANCE REPORTS TO MANAGEMENT

The QA/QC manager will report the status of the QA/QC program to the program management on a monthly basis. Each monthly report will include the following components:

- Periodic assessment of measurement data accuracy, precision, and completeness
- Results of audits
- Significant QA/QC problems and recommended solutions
- Resolutions of previously stated problems

The reports to management will be prepared using information from periodic reports from the field and laboratory to the quality assurance management organization. Field reports will describe the status of the project, daily field progress reports, compiled field data sets, and corrective action documentation at appropriate intervals. Laboratory analytical reports will include a summary of all quality assurance activities and quality control data for the project as related to the sample analysis. The project manager will be notified immediately of any laboratory quality assurance situations requiring immediate corrective action.

The project management organization and the regulatory agency will be notified of all situations that indicate an imminent health risk. Written notification with supporting data will be forwarded within three business days.

APPENDICES

APPENDIX A

SAMPLING LOCATIONS PLAN

APPENDIX B

FORMS

NY/NJ CHAIN OF CUSTODY RECORD

Temp ____ Pg ____ of ____

PHOENIX *Environmental Laboratories, Inc.*

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

Client Services (860) 645-8726

Data Delivery:
☐ Fax #: ____________
☐ Email: ____________

Customer: ____________ Project: ____________ Project P.O: ____________
Address: ____________ Report to: ____________ Phone #: ____________
____________ Invoice to: ____________ Fax #: ____________

Client Sample - Information - Identification

Sampler's Signature ____________ Date: ____________

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

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled													Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle		

Relinquished by:	Accepted by:	Date:	Time:

Comments, Special Requirements or Regulations:

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

* SURCHARGE APPLIES

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

NY
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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

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

State where samples were collected: ____________

APPENDIX C

GLOSSARY OF QA/QC TERMS

GLOSSARY OF QUALITY ASSURANCE AND RELATED TERMS

acceptance criteria — address the adequacy of existing information proposed for inclusion into the project. These criteria often apply to data drawn from existing sources (“secondary” data).

accuracy — a measure of the overall agreement of a measurement to a known value. Accuracy includes a combination of random error (precision) and systematic error (bias) components that are due to sampling and analytical operations; EPA recommends using the terms *“precision”* and *“bias*,” rather than “accuracy,” to convey the information usually associated with accuracy.

assessment — the evaluation process used to measure the performance or effectiveness of a system and its elements.

audit — a systematic and independent examination to determine whether quality activities and related results comply with planned arrangements and whether these arrangements are implemented effectively and are suitable to achieve objectives.

bias — the systematic or persistent distortion of a measurement process that causes errors in one direction (i.e., the expected sample measurement is different from the sample’s true value).

blank — a sample subjected to the usual analytical or measurement process to establish a zero baseline or background value. Sometimes used to adjust or correct routine analytical results. A sample that is intended to contain none of the analytes of interest. A blank is used to detect contamination during sample handling preparation and/or analysis.

chain-of-custody — an unbroken trail of accountability that ensures the physical security of samples, data, and records.

collocated samples — two or more portions collected at the same point in time and space so as to be considered identical. These samples are also known as field replicates and should be identified as such.

comparability — a measure of the confidence with which one data set or method can be compared to another.

completeness — a measure of the amount of valid data obtained from a measurement system.

conformance — an affirmative indication or judgment that a product or service satisfies the relevant specification, contract, or regulation.

corrective action — any measures taken to rectify conditions adverse to quality and, where possible, to prevent recurrence.

data quality — a measure of the degree of acceptability or utility of data for a particular purpose.

data quality assessment — the scientific and statistical evaluation of data to determine if data obtained from environmental operations are of the right type, quality, and quantity to support their intended use.

data quality indicators — the quantitative statistics and qualitative descriptors used to interpret the degree of acceptability or utility of data to the user. The principal data quality indicators are bias, precision, accuracy (bias is preferred), comparability, completeness, representativeness, and sensitivity.

data quality objectives — the qualitative and quantitative statements derived from the DQO Process that clarifies study's technical and quality objectives, define the appropriate type of data, and specify tolerable levels of potential decision errors that will be used as the basis for establishing the quality and quantity of data needed to support decisions.

data quality objective process — a systematic planning tool based on the scientific method that identifies and defines the type, quality, and quantity of data needed to satisfy a specified use. DQOs are the qualitative and quantitative outputs from the DQO Process.

data reduction — the process of transforming the number of data items by arithmetic or statistical calculations, standard curves, and concentration factors, and collating them into a more useful form. Data reduction is irreversible and generally results in a reduced data set and an associated loss of detail.

data validation — an analyte- and sample-specific process that extends the evaluation of data beyond method, procedural, or contractual compliance (i.e., data verification) to determine the analytical quality of a specific data set.

data verification — the process of evaluating the completeness, correctness, and conformance/compliance of a specific data set against the method, procedural, or contractual specifications.

design — the specifications, drawings, design criteria, and performance specifications. Also, the result of deliberate planning, analysis, mathematical manipulations, and design processes.

detection limit — a measure of the capability of an analytical method to distinguish samples that do not contain a specific analyte from samples that contain low concentrations of the analyte; the lowest concentration or amount of the target analyte that can be determined to be different from zero by a single measurement at a stated level of probability. DLs are analyte- and matrix-specific and may be laboratory-dependent.

document control — the policies and procedures used by an organization to ensure that its documents and their revisions are proposed, reviewed, approved for release, inventoried, distributed, archived, stored, and retrieved in accordance with the organization's specifications.

environmental conditions — the description of a physical medium (for example, air, water, soil, sediment) or a biological system expressed in terms of its physical, chemical, radiological, or biological characteristics.

environmental data — any measurements or information that describe environmental processes, location, or conditions; ecological or health effects and consequences; or the performance of environmental technology. For EPA, environmental data include information collected directly from measurements, produced from models. Compiled from other sources such as data bases or the literature.

environmental data operation — work performed to obtain, use, or report information pertaining to environmental processes and conditions.

environmental monitoring — the process of measuring or collecting environmental data.

environmental processes — any manufactured or natural processes that produce discharges to, or that impact, the ambient environment.

environmental technology — an all-inclusive term used to describe pollution control devices and systems, waste treatment processes and storage facilities, and Site remediation technologies and their components that may be used to remove pollutants or contaminants from, or to prevent them from entering, the environment. Examples include wet scrubbers (air), soil washing (soil), granulated activated carbon unit (water), and filtration (air, water). Usually, this term applies to hardware-based systems; however, it can also apply to methods or techniques used for pollution prevention, pollutant reduction, or containment of contamination to prevent further movement of the contaminants, such as capping, solidification or vitrification, and biological treatment.

field blank — a clean analyte-free sample which is carried to the sampling Site and then exposed to sampling conditions, returned to the laboratory, and treated as an environmental sample. This blank is used to provide information about contaminants that may be introduced during sample collection, storage, and transport.

financial assistance — the process by which funds are provided by one organization (usually governmental) to another organization for the purpose of performing work or furnishing services or items. Financial assistance mechanisms include grants, cooperative agreements, and governmental interagency agreements.

graded approach — the process of applying managerial controls to an item or work according to the intended use of the results and the degree of confidence needed in the quality of the results.

guidance — a suggested practice that is not mandatory, intended as an aid or example in complying with a standard or specification.

holding time — the period of time a sample may be stored before analysis. While exceeding the holding time does not necessarily negate the veracity of analytical results, it causes the qualifying or "flagging" of any data not meeting all of the specified acceptance criteria.

independent assessment — an assessment performed by a qualified individual, group, or organization that is not a part of the organization directly performing and accountable for the work being assessed.

inspection — the examination or measurement of an item or activity to verify conformance to specifications.

matrix spike sample — a sample prepared by adding a known amount of the target analyte to a specified amount of a matrix. Spiked samples are used, for example, to determine the effect of the matrix on a method's recovery efficiency.

measurement quality objectives — the individual performance or acceptance goals for the individual Data Quality Indicators such as precision or bias.

metadata — information that describes the data and the quality criteria associated with their generation.

method — a body of procedures and techniques for performing an activity (for example, sampling, chemical analysis, quantification), systematically presented in the order in which they are to be executed.

method blank — a blank prepared to represent the sample matrix as closely as possible and analyzed exactly like the calibration standards, samples, and quality control (QC) samples. Results of method blanks provide an estimate of the within-batch variability of the blank response and an indication of bias introduced by the analytical procedure.

outlier — an extreme observation that is shown to have a low probability of belonging to a specified data population.

parameter — a quantity, usually unknown, such as a mean or a standard deviation characterizing a population. Commonly misused for “variable,” “characteristic,” or “property.”

performance criteria — address the adequacy of information that is to be collected for the project. These criteria often apply to new data collected for a specific use (“primary” data).

precision — a measure of agreement among repeated measurements of the same property under identical, of substantially similar, conditions; expressed generally in terms of the standard deviation.

process — a set of interrelated resources and activities that transforms inputs into outputs. Examples of processes include analysis, design, data collection, operation, fabrication, and calculation.

proficiency test — a type of assessment in which a sample, the composition of which is unknown to the analyst, is provided to test whether the analyst/laboratory can produce analytical results within the specified acceptance criteria.

quality — the totality of features and characteristics of a product or service that bears on its ability to meet the stated or implied needs and expectations of the user.

quality assurance — an integrated system of management activities involving planning, implementation, assessment, reporting, and quality improvement to ensure that a process, item, or service is of the type and quality needed and expected by the customer.

quality assurance project plan — a formal document describing in comprehensive detail the necessary quality assurance procedures, quality control activities, and other technical activities that need to be implemented to ensure that the results of the work performed will satisfy the stated performance or acceptance criteria.

quality control — the overall system of technical activities that measures the attributes and performance of a process, item, or service against defined standards to verify that they meet the specifications established by the customer; operational techniques and activities that are used to fulfill the need for quality.

quality control sample — an uncontaminated sample matrix spiked with known amounts of analytes from a source independent of the calibration standards. Generally used to establish intra- laboratory or analyst-specific precision and bias or to assess the performance of all or a portion of the measurement system.

quality management plan — a document that describes the quality system in terms of the organization's structure, the functional responsibilities of management and staff, the lines of authority, and the interfaces for those planning, implementing, and assessing all activities conducted.

quality system — a structured and documented management system describing the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of an organization for ensuring quality in its work processes, products (items), and services. The quality system provides the framework for planning, implementing, and assessing work performed by the organization and for carrying out quality assurance procedures and quality control activities.

readiness review — a systematic, documented review of the readiness for the start-up or continued use of a facility, process, or activity. Readiness reviews are typically conducted before proceeding beyond project milestones and before initiation of a major phase of work.

record — a completed document that provides objective evidence of an item or process. Records may include photographs, drawings, magnetic tape, and other data recording media.

recovery — the act of determining whether or not the methodology measures all of the analyte contained in a sample.

representativeness - the measure of the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition.

self-assessment — the assessments of work conducted by individuals, groups, or organizations directly responsible for overseeing and/or performing the work.

sensitivity — the capability of a method or instrument to discriminate between measurement responses representing different levels of a variable of interest.

spike — a substance that is added to an environmental sample to increase the concentration of the target analyte by known amount; used to assess measurement accuracy (spike recovery). Spike duplicates are used to assess measurement precision.

split samples — two or more representative portions taken from one sample in the field or in the laboratory and analyzed by different analysts or laboratories. Split samples are quality control samples that are used to assess analytical variability and comparability.

standard operating procedure — a document that details the method for an operation, analysis, or action with thoroughly prescribed techniques and steps to be followed. It is officially approved as the method for performing certain routine or repetitive tasks.

surveillance (quality) — continual or frequent monitoring and verification of the status of an entity and the analysis of records to ensure that specifications are being fulfilled.

technical systems audit — a thorough, systematic, on-Site qualitative audit of facilities, equipment, personnel, training, procedures, record keeping, data validation, data management, and reporting aspects of a system.

validation — an analyte- and sample-specific process that extends the evaluation of data beyond method, procedural, or contractual compliance (i.e., data verification) to determine the analytical quality of a specific data set.

verification — the process of evaluating the completeness, correctness, and conformance / compliance of a specific data set against the method, procedural, or contractual specifications.

APPENDIX B

Health and Safety Plan (HASP)

HEALTH AND SAFETY PLAN
For Remedial Investigation Work Plan

Chatsworth Coal and Supply
North Avenue and 2101 Palmer Avenue
Larchmont, New York

BCP Site No.: C360132

November 22, 2013

PREPARED FOR:

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Date

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1.0 PURPOSE

The currently vacant Site is located at 2101 Palmer Avenue in Larchmont, New York. The Site has historically been utilized for as a coal storage facility and in October 2013 was accepted into the Brownfield Cleanup Program. The purpose of this Health and Safety Plan is to ensure that proper procedures are followed during the performance of the Remedial Action Work Plan (RIWP) including soil sampling, temporary well installation, and groundwater sampling. This Health and Safety Plan has been prepared to describe procedures to be employed to protect workers and to minimize nuisance impacts to adjacent properties during the period when excavation of soil and removal of bedrock are under way (the Work Period).

All persons working on the site during the Work Period will be given a copy of this Site Health and Safety Plan (HASP) for review prior to beginning excavation work at the Site. The Contractor and his sub contractors shall implement maintain and enforce these procedures during the Work Period.

The Contractor shall designate a responsible person to act as the Health and Safety Manager (HSM) for implementation of this HASP. The HSM will conduct initial site specific training and provide support for all health and safety activities as necessary, including upgrading or downgrading the level of personnel protection.

The HSM shall be assigned to the Site on a full time basis, whenever work is being performed, and be either the Contractor's employee, or a subcontractor who reports to the Contractor, in matters pertaining to site safety and health.

The following definitions shall be used throughout this specification:

1. Health and Safety Manager (HSM): The Contractor's employee or agent assigned to the Site on a full time basis for the duration of the Work Period with functional responsibility for implementation of the HASP.

2. Initial Remedial Action: An action taken to mitigate a health or safety problem so that subsequent work may have a lesser impact on worker safety or the environment.

3. Site: For the purpose of this HASP, “the Site” shall be the entire construction site at 2101 Palmer Avenue in Larchmont, New York.

4. Monitoring: Indicates the use of field instrumentation to provide information regarding the levels or organic vapors or dust being released during remedial action. Monitoring required by this HASP shall be conducted to evaluate employee exposures to toxic materials and potential for impacts to adjacent properties.

5. Physician: A licensed physician with experience in the practice of occupational medicine and provided by the Contractor.

2.0 REGULATORY REQUIREMENTS AND APPLICABLE PUBLICATIONS

The Site specific HASP shall be consistent with the requirements of:

1. Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29, Code of Federal Regulations, Parts 1910 and 1926 (29 CFR 1910 and 1926), specifically including 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response".
2. United State Environmental Protection Agency (USEPA) Standard Operating Guidelines Revised November, 1984.
3. Corps of Engineers Accident Prevention and Safety and Health Requirements Manual, EM 385-1-1. Revised October 1984.
4. NIOSH/OSHA/USCG/EPA Occupational Safety and Health Guidance Manual for Hazardous Site Activities, October 1985, DHHS (NIOSH) Publ. No. 85-115.
5. United States Environmental Protection Agency (USEPA) Standard Operating Procedures and Quality Assurance Manual, Region IV. April 1986.

The HASP shall address, but not necessarily be limited to, the following components:

1. Names of key personnel and alternates responsible for Site Safety and Health (responsibilities and chain of command)
2. Site Description and Evaluation
3. Site Control Measures (work zones, communication, and security)
4. Safety Training
5. Emergency Equipment and First Aid Requirements
6. Personnel Protective Equipment
7. Personnel Hygiene and Decontamination
8. Air and Noise Monitoring (Environmental and Personnel)
9. Confined Space Entry Procedures
10. Equipment Decontamination

Determination of the appropriate level of worker safety equipment and procedures shall be made by the Contractor as a result of an initial site survey, review of existing data and a continuing safety and health monitoring program performed by the Contractor's HSM in accordance with the requirements specified herein.

Should any unforeseen or Site specific safety related factor, hazard, or condition become evident during the performance of work at this Site, the Contractor will bring such to the attention of the Owner both verbally and in writing as quickly as possible for resolution. In the interim, the Contractor shall take prudent action to establish and maintain safe working conditions and to safeguard employees, the public, and the environment.

3.0 SITE CONTROL

The Site will be locked during non-working hours to prevent unauthorized access. During the Work Period, all construction vehicles will be logged in and out of the Site by the HSM or his delegate.

Temporary controls will be put in place "as/where needed" to ensure safe and secure access for Site tenants (defined below).

Communications

Telephone communications will be available via cell phones. Emergency numbers, including police, fire, ambulance, hospital and DEP shall be prominently posted or available on site.

Security

In order to restrict unauthorized access to the Site, security fencing shall be provided and maintained 24 hours per day for the duration of the work. Specific components of this security operation are as follows:

1. Vehicular access to the work area shall be restricted to authorized vehicles only.
2. A log of security incidents will be maintained.
3. No visitors shall be allowed on-site without the expressed approval of the Owner.
4. Provisions will be made to ensure that open areas "those areas unable to be locked down" will be secured in a manner approved by owner (IE: temporary fencing or completion of work prior to end of working day).

Environmental Controls

Dust raised by activities will be minimized by spraying water freely on all access ways to and from the Site; on all exposed faces of any working pile; on areas traversed by construction equipment; and, at any other area where dust is seen to be created.

4.0 TRAINING

The Contractor shall be required to verify that all of his personnel assigned to or regularly entering the work area have been presented a copy of the HASP and have reviewed appropriate safety training in accordance with 29 CFR 1910.120. All contractors' workers will have received the 40 hour HAZWOPER initial training. They will also have an up-to-date 8 hour refresher course.

A Site-specific health and safety briefing will be given to all personnel who will be working in the Work Area during the Work Period to familiarize them with the Site safety procedures.

5.0 EMERGENCY EQUIPMENT AND FIRST AID

The Contractor shall be required to develop contingency plans including evacuation procedures and routes to places of refuge or safe distances from the danger area, for the following potential emergencies: chemical exposure, personal injury, potential or actual fire or explosion, and environmental accident (spill or release). In the event of any such emergency, the Contractor shall without delay take diligent action to remove or otherwise minimize the cause of the emergency. This means alerting the Owner and Institute to whatever measures may be necessary to prevent any repetition of the conditions or actions resulting in the emergency.

Emergency medical care services shall be available at a nearby medical facility with established emergency routes. The staff at the facility shall be advised of any potential unusual medical emergencies that might result.

The Contractor shall establish emergency communications with a health care facility and emergency services if warranted by anticipated site conditions. The name of this facility, name of contact, emergency routes and emergency communications arrangements are provided on the first page of this safety plan. In addition the Contractor shall provide the following equipment:

A fully stocked first aid kit shall be provided and maintained in close proximity to the Work Zone, but not inside a hazardous work area. The first aid kit shall be specially marked and provided with adequate supplies necessary to cleanse and decontaminate burns, wounds, and lesions. It shall comply with OSHA 29 CFR 1910.151 Appendix A or ANSI Z308.1-1998 "Minimum Requirements for Workplace First-aid Kits".

6.0 PERSONNEL PROTECTIVE EQUIPMENT

During the Work Period, the Contractor and/or his sub contractors shall be required to provide all on-Site personnel with appropriate personnel safety equipment and protective clothing and will ensure that all safety equipment and protective clothing is kept clean and well maintained. "Action levels" for determining the specified minimum levels of protection shall be based upon air monitoring results and direct contact potential. Specific action levels are listed in Table 8.1. The level of personnel protection required at the Site is not expected to exceed Modified Level D. Any changes to the minimum level of protection shall be approved by the HSM and the Owner. At a minimum the following items shall be worn at all times, by all on-Site Personnel:

Modified Level D Equipment:

Appropriate work clothing for the weather conditions,
(*Including a minimum of long pants, work boots, and a shirt with sleeves.)*
Safety shoes or boots; chemical-resistant, steel toe and shank,
Hardhat,*
Safety glasses,*
Work Gloves,**
Outer, disposable, chemical resistant boots,**
Face shield.**

* - Required Personal Protective Equipment (PPE) for all on-site personnel shall be furnished by the contractor.

** - refers to optional PPE equipment, if applicable.

If air monitoring Action Levels are exceeded, STOP WORK immediately and contact the project manager.

Level C Equipment: ***(For Reference only, Level C work is not approved under this plan.)***

Appropriate work clothing for the weather conditions;
Safety shoes or boots; chemical-resistant, steel toe and shank,
Hardhat*
Safety glasses*
Full-face or half-mask air purifying, canister-equipped respirator* (NIOSH approved)
Hooded chemical-resistant clothing*
Face shield**
Gloves, inner, chemical-resistant**
Gloves, outer, chemical-resistant**
Disposable outer, chemical-resistant boot covers**
2 way radios** (worn under outside protective clothing)

* - Required Personal Protective Equipment (PPE) for all on-site personnel performing Level C work shall be furnished by the contractor.

** - refers to optional equipment, if applicable

All on-site personnel shall wear a minimum of: a hardhat, safety shoes/boots, and safety glasses at all times.

This Modified Level D shall be the minimum level of protection set for all primary operations performed at the Site, if an upgrade is required in accordance with the provisions set forth in the Air Monitoring program, the Project Manager and Health and Safety Representative must be notified prior to any upgrade in PPE.

- Footwear used on-site shall be steel-toed, steel shank safety shoes or boots, with chemical resistant soles and shall meet ASTM F2412 and F2413.
- All prescription eyeglasses in use on the Site shall be safety glasses. Prescription lens inserts shall be provided for full face respirators.
- If required, all personnel protective equipment worn on-Site shall be decontaminated or properly disposed of at the end of the work day. The HSM is responsible for ensuring all reusable personnel protective equipment is decontaminated and sanitized before being reissued.
- If required and approved, respirators shall be individually assigned and not interchanged between workers for the duration of the project. Respirators shall not be reissued without proper decontamination and disinfection.
- If required, cartridges, canisters and filters shall be changed at least daily. A procedure for assuring periodic cleaning and maintenance of facemasks and change-out of filters shall be provided by the Contractor.

7.0 PERSONAL HYGIENE AND DECONTAMINATION

During the Work Period, all on-Site personnel performing or supervising remedial work at this Site or exposed or subject to exposure to hazardous chemical vapors, liquids, or contaminated solids shall observe and adhere to the personnel hygiene-related provisions of this paragraph. The following conditions and procedures shall be followed:

1. The Contractor or his sub contractors shall be required to provide and require use by personnel of all protective clothing including disposable work clothing, safety boots, and storage and disposal containers for used disposable outerwear.
2. Portable Toilets shall be provided on the Site. Washing facilities, a facility for changing and storing clothing separate from street clothing, and a lunch and/or break room are recommended, but not required.
3. Disposable outerwear shall not be reused and when removed, shall be placed inside disposal containers provided for this purpose.
4. Smoking is prohibited at the worksite.
5. Employees must decontaminate skin and clothing before eating in the designated areas.

8.0 AIR AND NOISE MONITORING

Due to the identification of Heavy Metals, Volatile Organic Compounds (VOCs), PCBs, and Pesticides, detected in the natural soil deposits present at the Site, Air Monitoring will be performed at the Site whenever work is being performed, according to the Site Specific, Community Air Monitoring Plan (CAMP), attached as **Appendix A**.

In the event of any unseen chemical contamination, the Contractor will advise the Owner, who will call the Engineering Consultant. The Consultant will come in and monitor the work area with a photoionization detector (PID). All readings will be taken in the workers' breathing zone to determine whether an action level has been met and/or exceeded. Air monitoring results will be documented on the Air Monitoring Log (**Appendix B - Forms**).

Air monitoring action levels (Table 8.1) have been established to indicate the chemical concentrations in the breathing zone that require an upgrade in level of personal protective equipment (PPE). These action levels apply to all tasks performed on this Site. Guidelines for frequency of air monitoring are presented below.

If noise complaints are registered, noise measurements will be taken and readings compared against limits set forth by the Village of Larchmont. If required, appropriate steps will be taken to comply with the Village noise code.

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TABLE 8.1
AIR MONITORING ACTION LEVELS

Instrument*	Function	Measurement	Action
Photoionization Detector (PID), (Measured in Breathing Zone)	Measured total organic vapors	0-5 ppm	• Level D required
		> 25 ppm	• **Stop work**. Contact PM and HSR for guidance
Oxygen/Combustible Gas Meter (O_2/LEL) **<u>NOTE</u>:** Combustible gas meter readings obtained in an oxygen deficient atmosphere will not be accurate	Measures oxygen level (O_2) and lower explosive limit (% LEL)	O_2 19.5-22%	• Acceptable conditions - Continue normal activity
		O_2 <19.5	• Ventilate the space • Notify PM and SSHO if unable to achieve acceptable conditions
		O_2 >22%	• **Leave area immediately**: this atmosphere is extremely flammable • Notify PM and SSHO
		LEL<10%	• Acceptable conditions - Continue normal activity
		LEL>10%	• **Leave area immediately** • Contact PM and SSHO for guidance on venting and other safety measures

* NOTE: Instruments must be calibrated according to manufacturer's recommendations

9.0 CONFINED SPACE ENTRY PROCEDURES AND PERMIT

NO CONFINED SPACE ENTRY IS ANTICIPATED FOR THIS WORK.

No personnel shall enter an area identified as a confined space without using the confined space entry procedures. The purpose of the confined space entry procedure is to protect employees from potentially hazardous environments and to facilitate immediate rescue in an emergency situation. A Confined Space Entry Permit must be posted at the entrance to each confined space.

DEFINITION: A Permit Required Confined Space means an enclosed space which is large enough and so configured that an employee can bodily enter and perform assigned work; has limited or restricted means for entry or exit (some examples are tanks, vessels, silos, storage bins, hoppers, vaults, pits and diked areas); is not designed for continuous employee occupancy; and has one or more of the following characteristics: (A) contains or has a known potential to contain a hazardous atmosphere (including oxygen deficient); (B) contains a material with the potential for engulfment of an entrant; (C) has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls, or a floor which slopes downward and tapers to a smaller cross-section; or (D) contains any other recognized serious safety or health hazard.

Protocol For Confined Space Entry

- Perform the appropriate air monitoring activity at various depths in the space prior to entry. Monitor for: (1) oxygen level, (2) flammable vapors, and (3) toxic vapors.
- Ventilate the atmosphere in the space so that entry may be made safely without respiratory protection. If this is not feasible, appropriate respiratory protection must be worn by authorized entrants and attendants.
- Wear appropriate respiratory protection when ventilation alone can not achieve acceptable atmospheric levels of oxygen or flammable or toxic vapors. Note: Respirators alone are not sufficient in oxygen deficient atmospheres.
- Provide emergency means of evacuation - lifelines, mechanical hoist, etc.
- Provide at least one attendant who will remain outside the confined space and who is required to stay at the entrance of the confined space.

10.0 EQUIPMENT DECONTAMINATION

All equipment used in the Work Area during the Work Period shall be decontaminated prior to leaving the Site. The procedures for decontamination of equipment shall be approved by the Engineer. The Contractor shall be responsible for monitoring all vehicle decontamination prior to exiting the Site, where required.

1. Personnel engaged in vehicle decontamination shall wear protective equipment including disposable clothing and respiratory protection (as necessary) consistent with the requirements of this HASP.

2. Decontamination will include removal of all debris from truck bodies, tailgates and tires. The debris shall be removed while in a dry state whenever possible, utilizing brooms, shovels and the like.

3. If rinsing fluids are also required, the rinseate will consist of water only. If there is an obvious need for additional cleaning surfactants, an approved environmental cleaner such as “Alconox®” will be utilized.

APPENDIX A

COMMUNITY AIR MONITORING PLAN

COMMUNITY AIR MONITORING PLAN

Former Chatsworth Coal Supply Site
North Avenue and 2101 Palmer Avenue
Larchmont, New York

BCP Site # C360132

NOVEMBER 22, 2013

Prepared for:

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Community Air Monitoring Plan

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedances of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the DEC Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions.

The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for DEC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 $\mu g/m^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 $\mu g/m^3$ above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 $\mu g/m^3$ of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for DEC personnel to review.

APPENDIX B

FORMS

SITE EMERGENCY FORM

Contaminants of Concern: Volatile Organic Compounds, Semi Volatile Organic Compounds and Heavy Metals.

Minimum Level of Protection: Modified Level D - Minimum of Hard Hat, Work Boots and Safety Glasses.

Do not endanger your life. Survey the situation before taking any action

SITE LOCATION ADDRESS:

PROPOSED PINEBROOK CONDOMINUMS
North Avenue and 2101 Palmer Avenue
Larchmont, New York

EMERGENCY PHONE NUMBERS

IN THE EVENT OF ANY EMERGENCY, CONTACT PROJECT MANAGER OR HEALTH AND SAFETY REPRESENTATIVE.

Ambulance: 911
Fire: 911
Police (Precinct):
Poison Control: 1-800-222-1222

Project Manager: (631) 271-9292 Richard Galli, P.E.
Health/Safety Rep: (631) 271-9292

Hospital Name: **New Rochelle Hospital, 16 Guion Place, New Rochelle, NY 10801**

Hospital Phone: General Information: **(914) 632-5000**

FIRST AID FOR PETROLEUM HYDROCARBON EMERGENCIES

Ingestion: **DO NOT INDUCE VOMITING**. Call Poison Control, follow instructions. Administer CPR if necessary. Seek Medical attention.

Inhalation: Remove person from contaminated environment. **DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME UNLESS PROPERLY EQUIPPED AND A STANDBY PERSON IS PRESENT**. Administer CPR if necessary. Seek medical attention.

Skin Contact: Brush off dry material, remove wet or contaminated clothing. Flush skin thoroughly with water. Seek medical attention if irritation persists.

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention.

Exposure Symptoms: Headache, dizziness, nausea, drowsiness, irritation of eyes, nose, throat breathing difficulties.

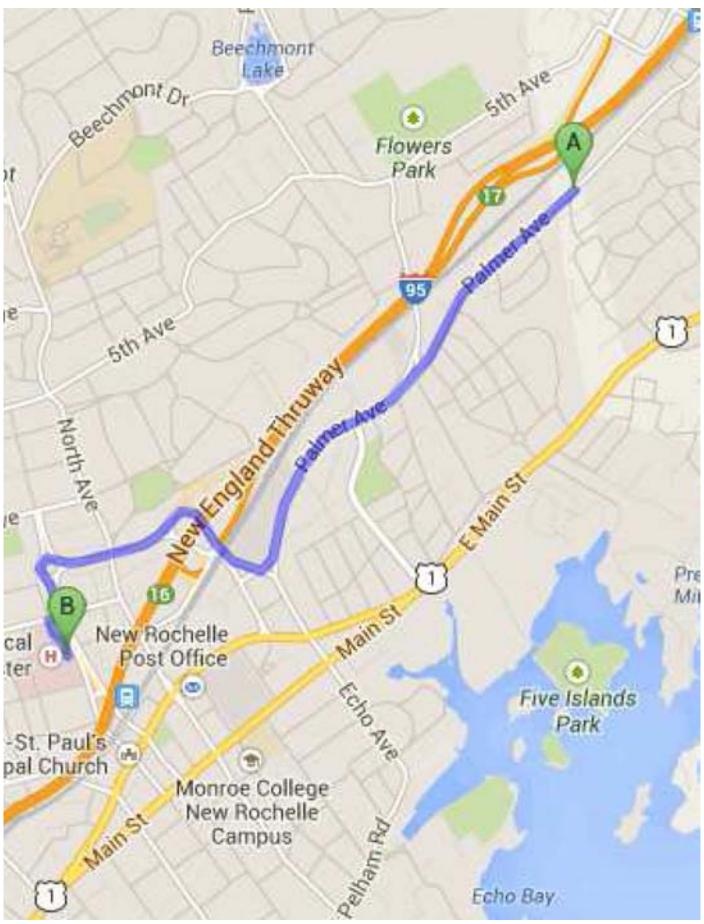
Contingency Plan: Report incident to Project Manager after emergency procedures have been implemented.

HOSPITAL INFORMATION

New Rochelle Hospital
16 Guion Place
New Rochelle, NY 10801

Phone: (914) 632-5000

MAP TO HOSPITAL



ROUTE TO HOSPITAL

Hospital Directions	
1. Head **southwest** on **Palmer Avenue** toward **Harrison Drive**	0.2 mi
2. Turn right onto **River Street**	0.1 mi
3. Continue onto **Cedar Street**	443 ft
4. Slight left to stay on **Cedar Street**	0.2 mi
5. Continue onto **Memorial Highway**	0.2 mi
6. At the traffic circle, take the **2nd** exit onto **Norman Rockwell Boulevard**	0.2 mi
7. Turn right onto **Lockwood Ave**	131 ft
8. Take the first left onto **Guion Place.**	0.1 mi
Hospital will be on the right	

EMERGENCY FIRST AID

1. Survey the situation. Do not endanger your own life. **DO NOT ENTER A CONFINED SPACE TO RESCUE SOMEONE WHO HAS BEEN OVERCOME UNLESS PROPERLY EQUIPPED AND A STANDBY PERSON IS PRESENT.**

2. Call 911 or the fire department **IMMEDIATELY**. Explain the physical injury, chemical exposure, fire or release.

3. Decontaminate the victim without delaying life-saving procedures.

4. If the victim's condition appears to be noncritical, but seems to be more severe than minor cuts, he/she should be transported to the nearest hospital by trained Emergency Medical Services (EMS) personnel. Let the doctor assume the responsibility for determining the severity of the injury. If the condition is obviously serious, EMS must transport the victim.

5. Notify the Project Manager.

EMERGENCY FIRST AID PROCEDURES	
To Stop Bleeding	Cardiopulmonary Resuscitation (CPR) **Only to be used by trained persons**
1. Give medical statement. 2. Assure airway, breathing and circulation. 3. Use **DIRECT PRESSURE** over the wound with clean dressing or your hand (use nonpermeable gloves). Direct pressure will control most bleeding. 4. Bleeding from an artery or several injury sites may require **DIRECT PRESSURE** on a **PRESSURE POINT**. Use pressure points for 30-60 seconds to help control severe bleeding. 5. Continue primary care and seek medical aid as needed.	1. Give medical statement 2. Arousal: Check for consciousness. 3. Open airway with chin-lift. 4. Look, listen and feel for breathing. 5. If breathing is absent, give 2 full rescue breaths. 6. Check the pulse for 5 to 10 seconds. 7. If pulse if present, continue rescue breathing: **1 breath every 5 seconds.**

MSDS DEFINITIONS

TLV-TWA	**Threshold Limit Value - Time Weighted Average** - The time-weighted average concentration for a normal 8-hour work day and a 40-hour work week, to which nearly all workers may be repeatedly exposed without adverse effect.
PEL	**Permissible Exposure Limit** - Time-weighted average concentrations similar to (and in many cases derived from) the Threshold Limit Values.
REL	**Recommended Exposure Limit** - as defined by NIOSH similar to the Threshold Limit Values.
IDLH	**Immediately Dangerous to Life or Health** - Any atmospheric condition that poses an immediate threat to life, or which is likely to result in acute or immediate severe health effects. Oxygen deficiency is IDLH.
LEL	**Lower Explosive Limit** - The minimum concentration of vapor in air below which propagation of a flame will not occur in the presence of an ignition source.
UEL	**Upper Explosive Limit** - The maximum concentration of vapor in air above which propagation of a flame will not occur in the presence of an ignition source.
FP	**Flash Point** - The lowest temperature at which the vapor of a combustible liquid can be made to ignite momentarily in air.
VP	**Vapor Pressure** - The pressure characteristic at any given temperature of a vapor in equilibrium with its liquid or solid form, often expressed in millimeters of mercury (mm Hg).
Odor Threshold	A property displayed by a particular compound. Low detection indicates a physiological sensation due to molecular contact with the olfactory nervous system (based on 50% of the population).
IP	**Ionization Potential** - The energy required to form an ion by removal of a given electron from an atom.

CONTAMINANTS PROFILE

Chemical	Exposure Route	Symptoms of Overexposure	Incompatibilities
Volatile Organic Compounds	Inhalation and/or ingestion, skin contact	Eye, nose, and throat irritation; headaches, loss of coordination, nausea; damage to liver, kidney, and central nervous system.	
Semi-Volatile Organic Compounds	Inhalation and/or ingestion, skin contact	Eye, nose, and throat irritation; headaches, loss of coordination, nausea; damage to liver, kidney, and central nervous system.	
Heavy Metals	Inhalation and/or ingestion, skin contact	Abdominal discomfort, nausea and/or constipation, diarrhea, metallic taste, weakness, muscle pains, irritability, headache, dizziness.	
Lead	Inhalation, ingestion, skin and/or eye contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension	Strong oxidizers, hydrogen peroxide, acids
Mercury	Inhalation, skin absorption, ingestion, skin and/or eye contact	Paresthesia; ataxia, dysarthria; vision, hearing disturbance; spasticity, jerking limbs; dizziness; salivation; lacrimation (discharge of tears); nausea, vomiting, diarrhea, constipation; skin burns; emotional disturbance; kidney injury; possible teratogenic effects	Strong oxidizers such as chlorine

VAPOR MONITORING FORM

Date	Time	PID Reading	Explosimeter Reading		Location	Initials
			%LEL	O_2		

VISITOR/TENANT/TRAINEE GUIDELINES

Galli Engineering is committed to providing a safe environment on all work sites for visitors, tenants, trainees, employees and/or passersby. In order to accomplish this, the following guidelines must be followed.

1. **VISITORS**

   Any person not actively participating in the work at the Site is regarded as a "visitor" and must follow these visitor/trainee guidelines. Visitors must be accompanied by an authorized representative while on Site.

   Sites must be marked with signs, placards, and/or barricades to designate hazardous boundaries. Visitors will not be allowed on any site that is not adequately marked.

2. **TENANTS**

   Any person not participating in the work at the Site yet requiring access per employment with Site occupant is regarded as a “tenant”. However, the subject Site is currently vacant and does not have any tenants.

   On projects where Tenants do exist on the Site, Tenants will be provided a “work plan” showing areas of work, durations, any potential issues that may arise from said activities and any precautions deemed prudent by project management team/Health and Safety Representatives that are being taken.

   Due diligence and all applicable precautions will be taken during activities impacting tenant access/workspace to ensure tenant safety and security.

   As required, Tenant groups to be provided with:

   Health and Safety Representative contact details
   Emergency phone number list
   Project Management contact list
   Site Emergency Form
   First Aid directions
   Hospital Directions

3. TRAINEES

Trainees are employees of Galli Engineering or their representatives who have not yet completed the required safety training program. New hires and in-house company transfers will be considered trainees until safety training requirements are met.

Trainees will be informed of restrictions by their supervisor and must abide by them before visiting active sites.

Trainees will be permitted to visit Galli Engineering sites as observers provided the following conditions are met:

- Trainees are supervised at all times while observing on Site.
- Trainees do not perform work functions of any type while on Site.
- Trainees do not handle any equipment, tools and/or supplies while on Site.
- Trainees do not enter any hazardous or hot zone or confined space areas while on Site.

Supervisors will be responsible for informing trainees of the above conditions and for ensuring that the conditions are met. Supervisors will also ensure that trainees will not be asked to violate the conditions listed above.

A Trainee/Visitor Agreement Form must be signed by both the trainee and the supervisor.

Infractions of the above agreement are extremely serious. Violators will be subject to discipline up to and including termination for either the trainee and/or supervisor.

AGREEMENT AND ACKNOWLEDGMENT STATEMENT

Health and Safety Plan Agreement

Galli personnel have the authority to stop activities performed by our subcontractors or visitors at this Site if any field activity is not performed in accordance with the requirements of this Health and Safety Plan and as per directive of the Site Supervisor (SS).

All Galli Engineering, P.C. Project personnel, subcontractor personnel, and visitors are required to sign the following agreement.

1. I have read and fully understand the Health and Safety Plan (HASP) and my individual responsibilities.

2. I agree to abide by the provisions of the Health and Safety Plan (HASP).

Printed Name: ____

Signature: ____

Company: ____

Date: ____

DAILY REPORT

Former Chatsworth Coal and Supply Site
North Avenue and 2101 Palmer Avenue
Larchmont, New York

Date: ________________ **Prepared By:** ________________________________

ENVIRONMENTAL SAMPLING RESULTS:

PARAMETER	TIME	SAMPLE LOCATION	RESULT

Signed: ____

APPENDIX C

Community Air Monitoring Plan (CAMP)

COMMUNITY AIR MONITORING PLAN

Former Chatsworth Coal Supply Site
North Avenue and 2101 Palmer Avenue
Larchmont, New York

BCP Site # C360132

NOVEMBER 22, 2013

Prepared for:

WB Pinebrook Associates, LLC

570 Taxter Road, Sixth Floor

Elmsford, New York 10523

Prepared by:

Galli Engineering, P.C.

734 Walt Whitman Rd., Suite 402A

Melville, NY 11747

Community Air Monitoring Plan

Real-time air monitoring for volatile organic compounds (VOCs) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pit excavation or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be performed during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. Periodic monitoring during sample collection, for instance, will consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. Depending upon the proximity of potentially exposed individuals, continuous monitoring may be performed during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence. Exceedances of action levels observed during performance of the Community Air Monitoring Plan (CAMP) will be reported to the DEC Project Manager and included in the Daily Report.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions.

The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities will be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities will resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities will be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities will resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings must be recorded and be available for DEC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work will continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 $\mu g/m^3$ above the upwind level and provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 $\mu g/m^3$ above the upwind level, work will be stopped and a re-evaluation of activities initiated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 $\mu g/m^3$ of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for DEC personnel to review.

APPENDIX D

Laboratory Analytical Reports

PHOENIX
Environmental Laboratories, Inc.

Thursday, October 03, 2013

Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: LARCHMONT
Sample ID#s: BF45185 - BF45196

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

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

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

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

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

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	10:00
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45185

Project ID: LARCHMONT
Client ID: B-1 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	09/28/13	LK	SW6010
Aluminum	7570	61	mg/Kg	09/28/13	LK	SW6010
Arsenic	17.0	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	96.8	0.41	mg/Kg	09/28/13	LK	SW6010
Beryllium	< 0.32	0.32	mg/Kg	09/28/13	LK	SW6010
Calcium	23000	61	mg/Kg	09/28/13	LK	SW6010
Cadmium	3.19	0.41	mg/Kg	09/28/13	LK	SW6010
Cobalt	10.4	0.41	mg/Kg	09/28/13	LK	SW6010
Chromium	73.5	0.41	mg/Kg	09/28/13	LK	SW6010
Copper	147	0.41	mg/kg	09/28/13	LK	SW6010
Iron	29600	61	mg/Kg	09/28/13	LK	SW6010
Mercury	0.12	0.08	mg/Kg	09/26/13	RS	SW-7471
Potassium	708	6.1	mg/Kg	09/28/13	LK	SW6010
Magnesium	4220	6.1	mg/Kg	09/28/13	LK	SW6010
Manganese	315	4.1	mg/Kg	09/28/13	LK	SW6010
Sodium	415	6.1	mg/Kg	09/28/13	LK	SW6010
Nickel	21.7	0.41	mg/Kg	09/28/13	LK	SW6010
Lead	477	4.1	mg/Kg	09/28/13	LK	SW6010
Antimony	< 4.1	4.1	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.7	3.7	mg/Kg	09/28/13	LK	SW6010
Vanadium	38.6	0.41	mg/Kg	09/28/13	LK	SW6010
Zinc	391	4.1	mg/Kg	09/28/13	LK	SW6010
Percent Solid	88		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-1 (2-4 FT)

Phoenix I.D.: BF45185

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	470	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	94	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	94	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	58		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	09/26/13	AW	30 - 150 %	
% TCMX	49		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	09/30/13	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	09/30/13	MH	SW8081	
4,4' -DDT	ND*	12	ug/Kg	09/30/13	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	09/30/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	09/30/13	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	09/30/13	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Dieldrin	ND	1.9	ug/Kg	09/30/13	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endrin	ND	11	ug/Kg	09/30/13	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endrin ketone	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	09/30/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	09/30/13	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	09/30/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	45	ug/Kg	09/30/13	MH	SW8081	
Toxaphene	ND	36	ug/Kg	09/30/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	67		%	09/30/13	MH	30 - 150 %	
% TCMX	55		%	09/30/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	8.5	ug/Kg	09/25/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloropropene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromoethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloropropane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichloropropane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
2,2-Dichloropropane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
2-Chlorotoluene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
2-Hexanone	ND	70	ug/Kg	09/25/13	R/P	SW8260	
2-Isopropyltoluene	ND	14	ug/Kg	09/25/13	R/P	SW8260	1
4-Chlorotoluene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	70	ug/Kg	09/25/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/25/13	R/P	SW8260	
Acrylonitrile	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Benzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Bromobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Bromochloromethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Bromodichloromethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Bromoform	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Bromomethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Carbon Disulfide	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Carbon tetrachloride	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Chlorobenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Chloroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Chloroform	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Chloromethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Dibromochloromethane	ND	8.5	ug/Kg	09/25/13	R/P	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Dichlorodifluoromethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Ethylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Hexachlorobutadiene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Isopropylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
m&p-Xylene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	85	ug/Kg	09/25/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	28	ug/Kg	09/25/13	R/P	SW8260	
Methylene chloride	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Naphthalene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
n-Butylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
n-Propylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
o-Xylene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
p-Isopropyltoluene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
sec-Butylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Styrene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
tert-Butylbenzene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Tetrachloroethene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	28	ug/Kg	09/25/13	R/P	SW8260	1
Toluene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Total Xylenes	ND	14	ug/Kg	09/25/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	28	ug/Kg	09/25/13	R/P	SW8260	
Trichloroethene	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Trichlorofluoromethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	14	ug/Kg	09/25/13	R/P	SW8260	
Vinyl chloride	ND	14	ug/Kg	09/25/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	114		%	09/25/13	R/P	70 - 130 %	
% Bromofluorobenzene	83		%	09/25/13	R/P	70 - 130 %	
% Dibromofluoromethane	109		%	09/25/13	R/P	70 - 130 %	
% Toluene-d8	100		%	09/25/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	3000	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-1 (2-4 FT)

Phoenix I.D.: BF45185

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	5300	1300	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	1900	1300	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	15000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	39000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	2300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	33000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	42000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	14000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	21000	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	5500	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	5000	2800	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	35000	1300	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	5500	1300	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	3100	1300	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	91000	1300	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	5000	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	17000	1300	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1900	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-1 (2-4 FT)

Phoenix I.D.: BF45185

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	53000	1300	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
Pyrene	69000	1300	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	108		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	92		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	96		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	106		%	09/26/13	DD	30 - 130 %
% Phenol-d5	101		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	109		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

* 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
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	10:15
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45186

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	09/30/13	EK	SW6010
Aluminum	18200	62	mg/Kg	09/28/13	LK	SW6010
Arsenic	1.7	0.8	mg/Kg	09/30/13	EK	SW6010
Barium	69.0	0.41	mg/Kg	09/30/13	EK	SW6010
Beryllium	0.44	0.33	mg/Kg	09/30/13	EK	SW6010
Calcium	818	6.2	mg/Kg	09/30/13	EK	SW6010
Cadmium	1.06	0.41	mg/Kg	09/30/13	EK	SW6010
Cobalt	10.3	0.41	mg/Kg	09/30/13	EK	SW6010
Chromium	30.6	0.41	mg/Kg	09/30/13	EK	SW6010
Copper	8.24	0.41	mg/kg	09/30/13	EK	SW6010
Iron	30400	62	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	09/26/13	RS	SW-7471
Potassium	1160	62	mg/Kg	09/28/13	LK	SW6010
Magnesium	6160	62	mg/Kg	09/28/13	LK	SW6010
Manganese	126	4.1	mg/Kg	09/28/13	LK	SW6010
Sodium	112	6.2	mg/Kg	09/30/13	EK	SW6010
Nickel	17.9	0.41	mg/Kg	09/30/13	EK	SW6010
Lead	7.66	0.41	mg/Kg	09/30/13	EK	SW6010
Antimony	< 4.1	4.1	mg/Kg	09/30/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	09/30/13	EK	SW6010
Thallium	< 3.7	3.7	mg/Kg	09/30/13	EK	SW6010
Vanadium	51.6	0.41	mg/Kg	09/30/13	EK	SW6010
Zinc	40.6	0.41	mg/Kg	09/30/13	EK	SW6010
Percent Solid	81		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Phoenix I.D.: BF45186

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	510	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	51	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	100	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	51	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	100	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	61		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	80	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	80	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	96		%	09/26/13	AW	30 - 150 %	
% TCMX	73		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDE	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDT	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
a-BHC	ND	3.8	ug/Kg	09/26/13	MH	SW8081	
Alachlor	ND	3.8	ug/Kg	09/26/13	MH	SW8081	1
Aldrin	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
b-BHC	ND	3.8	ug/Kg	09/26/13	MH	SW8081	
Chlordane	ND	12	ug/Kg	09/26/13	MH	SW8081	
d-BHC	ND	3.8	ug/Kg	09/26/13	MH	SW8081	
Dieldrin	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
Endosulfan I	ND	3.8	ug/Kg	09/26/13	MH	SW8081	
Endosulfan II	ND	7.7	ug/Kg	09/26/13	MH	SW8081	
Endosulfan sulfate	ND	7.7	ug/Kg	09/26/13	MH	SW8081	
Endrin	ND	7.7	ug/Kg	09/26/13	MH	SW8081	
Endrin aldehyde	ND	7.7	ug/Kg	09/26/13	MH	SW8081	
Endrin ketone	ND	7.7	ug/Kg	09/26/13	MH	SW8081	
g-BHC	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
Heptachlor	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
Heptachlor epoxide	ND	3.8	ug/Kg	09/26/13	MH	SW8081	

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Phoenix I.D.: BF45186

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	38	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	38	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	114		%	09/26/13	MH	30 - 150 %	
% TCMX	90		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	7.2	ug/Kg	09/25/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloropropene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromoethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloropropane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichloropropane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
2,2-Dichloropropane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
2-Chlorotoluene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
2-Hexanone	ND	60	ug/Kg	09/25/13	R/P	SW8260	
2-Isopropyltoluene	ND	12	ug/Kg	09/25/13	R/P	SW8260	1
4-Chlorotoluene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	60	ug/Kg	09/25/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/25/13	R/P	SW8260	
Acrylonitrile	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Benzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Bromobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Bromochloromethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Bromodichloromethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Bromoform	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Bromomethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Carbon Disulfide	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Carbon tetrachloride	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Chlorobenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Chloroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Chloroform	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Chloromethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Dibromochloromethane	ND	7.2	ug/Kg	09/25/13	R/P	SW8260	

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Phoenix I.D.: BF45186

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Dichlorodifluoromethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Ethylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Hexachlorobutadiene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Isopropylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
m&p-Xylene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	72	ug/Kg	09/25/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	24	ug/Kg	09/25/13	R/P	SW8260	
Methylene chloride	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Naphthalene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
n-Butylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
n-Propylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
o-Xylene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
p-Isopropyltoluene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
sec-Butylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Styrene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
tert-Butylbenzene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Tetrachloroethene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	24	ug/Kg	09/25/13	R/P	SW8260	1
Toluene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Total Xylenes	ND	12	ug/Kg	09/25/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	24	ug/Kg	09/25/13	R/P	SW8260	
Trichloroethene	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Trichlorofluoromethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	12	ug/Kg	09/25/13	R/P	SW8260	
Vinyl chloride	ND	12	ug/Kg	09/25/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	110		%	09/25/13	R/P	70 - 130 %	
% Bromofluorobenzene	89		%	09/25/13	R/P	70 - 130 %	
% Dibromofluoromethane	109		%	09/25/13	R/P	70 - 130 %	
% Toluene-d8	100		%	09/25/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270
1,2-Dichlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	410	ug/Kg	09/25/13	DD	SW 8270
1,3-Dichlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270
1,4-Dichlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,4-Dichlorophenol	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,4-Dimethylphenol	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,4-Dinitrophenol	ND	650	ug/Kg	09/25/13	DD	SW 8270
2,4-Dinitrotoluene	ND	290	ug/Kg	09/25/13	DD	SW 8270
2,6-Dinitrotoluene	ND	290	ug/Kg	09/25/13	DD	SW 8270
2-Chloronaphthalene	ND	290	ug/Kg	09/25/13	DD	SW 8270
2-Chlorophenol	ND	290	ug/Kg	09/25/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Phoenix I.D.: BF45186

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	290	ug/Kg	09/25/13	DD	SW 8270	
2-Nitroaniline	ND	650	ug/Kg	09/25/13	DD	SW 8270	
2-Nitrophenol	ND	290	ug/Kg	09/25/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	09/25/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	290	ug/Kg	09/25/13	DD	SW 8270	
3-Nitroaniline	ND	650	ug/Kg	09/25/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	09/25/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	410	ug/Kg	09/25/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	290	ug/Kg	09/25/13	DD	SW 8270	
4-Chloroaniline	ND	290	ug/Kg	09/25/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	09/25/13	DD	SW 8270	
4-Nitroaniline	ND	650	ug/Kg	09/25/13	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	09/25/13	DD	SW 8270	
Acenaphthene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Acenaphthylene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Acetophenone	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Aniline	ND	1200	ug/Kg	09/25/13	DD	SW 8270	
Anthracene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benz(a)anthracene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benzidine	ND	490	ug/Kg	09/25/13	DD	SW 8270	
Benzo(a)pyrene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benzo(ghi)perylene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	09/25/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	410	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	290	ug/Kg	09/25/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Carbazole	ND	610	ug/Kg	09/25/13	DD	SW 8270	
Chrysene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Dibenzofuran	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Diethyl phthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Dimethylphthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Di-n-butylphthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Di-n-octylphthalate	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Fluoranthene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Fluorene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorobutadiene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Hexachloroethane	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Isophorone	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Naphthalene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
Nitrobenzene	ND	290	ug/Kg	09/25/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	410	ug/Kg	09/25/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-2 (6-8 FT)

Phoenix I.D.: BF45186

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	290	ug/Kg	09/25/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	410	ug/Kg	09/25/13	DD	SW 8270
Pentachloronitrobenzene	ND	410	ug/Kg	09/25/13	DD	SW 8270
Pentachlorophenol	ND	410	ug/Kg	09/25/13	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	09/25/13	DD	SW 8270
Phenol	ND	290	ug/Kg	09/25/13	DD	SW 8270
Pyrene	ND	290	ug/Kg	09/25/13	DD	SW 8270
Pyridine	ND	410	ug/Kg	09/25/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	109		%	09/25/13	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	09/25/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	09/25/13	DD	30 - 130 %
% Nitrobenzene-d5	83		%	09/25/13	DD	30 - 130 %
% Phenol-d5	92		%	09/25/13	DD	30 - 130 %
% Terphenyl-d14	106		%	09/25/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	10:30
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45187

Project ID: LARCHMONT
Client ID: B-3 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	09/28/13	LK	SW6010
Aluminum	4500	60	mg/Kg	09/28/13	LK	SW6010
Arsenic	4.4	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	77.8	0.40	mg/Kg	09/28/13	LK	SW6010
Beryllium	< 0.32	0.32	mg/Kg	09/28/13	LK	SW6010
Calcium	2170	6.0	mg/Kg	09/28/13	LK	SW6010
Cadmium	0.79	0.40	mg/Kg	09/28/13	LK	SW6010
Cobalt	11.7	0.40	mg/Kg	09/28/13	LK	SW6010
Chromium	12.7	0.40	mg/Kg	09/28/13	LK	SW6010
Copper	34.6	0.40	mg/kg	09/28/13	LK	SW6010
Iron	18400	60	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.06	0.06	mg/Kg	09/26/13	RS	SW-7471
Potassium	1110	6.0	mg/Kg	09/28/13	LK	SW6010
Magnesium	1140	60	mg/Kg	09/28/13	LK	SW6010
Manganese	223	4.0	mg/Kg	09/28/13	LK	SW6010
Sodium	119	6.0	mg/Kg	09/28/13	LK	SW6010
Nickel	23.7	0.40	mg/Kg	09/28/13	LK	SW6010
Lead	22.1	0.40	mg/Kg	09/28/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.6	3.6	mg/Kg	09/28/13	LK	SW6010
Vanadium	18.5	0.40	mg/Kg	09/28/13	LK	SW6010
Zinc	41.6	0.40	mg/Kg	09/28/13	LK	SW6010
Percent Solid	89		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2,4,5-T	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	470	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	94	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	94	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	54		%	09/27/13	CE	30 - 150 %	

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
PCB-1016	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	98		%	09/26/13	AW	30 - 150 %	
% TCMX	60		%	09/26/13	AW	30 - 150 %	

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4,4' -DDD	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	09/26/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	09/26/13	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	09/26/13	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	09/26/13	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	09/26/13	MH	SW8081	
Endrin	ND	7.2	ug/Kg	09/26/13	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	09/26/13	MH	SW8081	
Endrin ketone	ND	7.2	ug/Kg	09/26/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	09/26/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Methoxychlor	ND	36	ug/Kg	09/26/13	MH	SW8081
Toxaphene	ND	36	ug/Kg	09/26/13	MH	SW8081
QA/QC Surrogates						
% DCBP	113		%	09/26/13	MH	30 - 150 %
% TCMX	75		%	09/26/13	MH	30 - 150 %

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1,1,2-Tetrachloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,1,1-Trichloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260
1,1,2-Trichloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,1-Dichloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,1-Dichloroethene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,1-Dichloropropene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2,3-Trichlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2,3-Trichloropropane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2,4-Trichlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2,4-Trimethylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2-Dibromoethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2-Dichlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2-Dichloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,2-Dichloropropane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,3,5-Trimethylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,3-Dichlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,3-Dichloropropane	ND	18	ug/Kg	09/26/13	R/P	SW8260
1,4-Dichlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
2,2-Dichloropropane	ND	18	ug/Kg	09/26/13	R/P	SW8260
2-Chlorotoluene	ND	18	ug/Kg	09/26/13	R/P	SW8260
2-Hexanone	ND	89	ug/Kg	09/26/13	R/P	SW8260
2-Isopropyltoluene	ND	18	ug/Kg	09/26/13	R/P	SW8260 [1]
4-Chlorotoluene	ND	18	ug/Kg	09/26/13	R/P	SW8260
4-Methyl-2-pentanone	ND	89	ug/Kg	09/26/13	R/P	SW8260
Acetone	ND	50	ug/Kg	09/26/13	R/P	SW8260
Acrylonitrile	ND	18	ug/Kg	09/26/13	R/P	SW8260
Benzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
Bromobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
Bromochloromethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
Bromodichloromethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
Bromoform	ND	18	ug/Kg	09/26/13	R/P	SW8260
Bromomethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
Carbon Disulfide	ND	18	ug/Kg	09/26/13	R/P	SW8260
Carbon tetrachloride	ND	18	ug/Kg	09/26/13	R/P	SW8260
Chlorobenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260
Chloroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
Chloroform	ND	18	ug/Kg	09/26/13	R/P	SW8260
Chloromethane	ND	18	ug/Kg	09/26/13	R/P	SW8260
cis-1,2-Dichloroethene	ND	18	ug/Kg	09/26/13	R/P	SW8260
cis-1,3-Dichloropropene	ND	18	ug/Kg	09/26/13	R/P	SW8260
Dibromochloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Dichlorodifluoromethane	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Ethylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Hexachlorobutadiene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Isopropylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
m&p-Xylene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	110	ug/Kg	09/26/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	36	ug/Kg	09/26/13	R/P	SW8260	
Methylene chloride	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Naphthalene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
n-Butylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
n-Propylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
o-Xylene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
p-Isopropyltoluene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
sec-Butylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Styrene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
tert-Butylbenzene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Tetrachloroethene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	36	ug/Kg	09/26/13	R/P	SW8260	1
Toluene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Total Xylenes	ND	18	ug/Kg	09/26/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	36	ug/Kg	09/26/13	R/P	SW8260	
Trichloroethene	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Trichlorofluoromethane	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	18	ug/Kg	09/26/13	R/P	SW8260	
Vinyl chloride	ND	18	ug/Kg	09/26/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	118		%	09/26/13	R/P	70 - 130 %	
% Bromofluorobenzene	83		%	09/26/13	R/P	70 - 130 %	
% Dibromofluoromethane	114		%	09/26/13	R/P	70 - 130 %	
% Toluene-d8	100		%	09/26/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	09/25/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	09/25/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/25/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/25/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/25/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/25/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-3 (2-4 FT)

Phoenix I.D.: BF45187

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/25/13	DD	SW 8270	
2-Nitroaniline	ND	600	ug/Kg	09/25/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	09/25/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/25/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/25/13	DD	SW 8270	
3-Nitroaniline	ND	600	ug/Kg	09/25/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/25/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/25/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/25/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	09/25/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/25/13	DD	SW 8270	
4-Nitroaniline	ND	600	ug/Kg	09/25/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	09/25/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	09/25/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	09/25/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	09/25/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/25/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/25/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Carbazole	ND	560	ug/Kg	09/25/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	09/25/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	09/25/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-3 (2-4 FT)

Phoenix I.D.: BF45187

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/25/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/25/13	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	09/25/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	09/25/13	DD	SW 8270
Phenanthrene	260	260	ug/Kg	09/25/13	DD	SW 8270
Phenol	ND	260	ug/Kg	09/25/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	09/25/13	DD	SW 8270
Pyridine	ND	370	ug/Kg	09/25/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	85		%	09/25/13	DD	30 - 130 %
% 2-Fluorobiphenyl	95		%	09/25/13	DD	30 - 130 %
% 2-Fluorophenol	75		%	09/25/13	DD	30 - 130 %
% Nitrobenzene-d5	88		%	09/25/13	DD	30 - 130 %
% Phenol-d5	82		%	09/25/13	DD	30 - 130 %
% Terphenyl-d14	126		%	09/25/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	11:00
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45188

Project ID: LARCHMONT
Client ID: B-4 (1-3 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	09/28/13	LK	SW6010
Aluminum	10100	56	mg/Kg	09/28/13	LK	SW6010
Arsenic	17.6	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	79.7	0.38	mg/Kg	09/28/13	LK	SW6010
Beryllium	0.40	0.30	mg/Kg	09/28/13	LK	SW6010
Calcium	2680	5.6	mg/Kg	09/28/13	LK	SW6010
Cadmium	1.49	0.38	mg/Kg	09/28/13	LK	SW6010
Cobalt	9.67	0.38	mg/Kg	09/28/13	LK	SW6010
Chromium	18.1	0.38	mg/Kg	09/28/13	LK	SW6010
Copper	66.4	0.38	mg/kg	09/28/13	LK	SW6010
Iron	23300	56	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.09	0.09	mg/Kg	09/26/13	RS	SW-7471
Potassium	1050	5.6	mg/Kg	09/28/13	LK	SW6010
Magnesium	2730	5.6	mg/Kg	09/28/13	LK	SW6010
Manganese	245	3.8	mg/Kg	09/28/13	LK	SW6010
Sodium	211	5.6	mg/Kg	09/28/13	LK	SW6010
Nickel	18.1	0.38	mg/Kg	09/28/13	LK	SW6010
Lead	95.5	0.38	mg/Kg	09/28/13	LK	SW6010
Antimony	< 3.8	3.8	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.4	3.4	mg/Kg	09/28/13	LK	SW6010
Vanadium	34.3	0.38	mg/Kg	09/28/13	LK	SW6010
Zinc	139	0.38	mg/Kg	09/28/13	LK	SW6010
Percent Solid	81		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-4 (1-3 FT)

Phoenix I.D.: BF45188

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	51	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	510	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	51	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	100	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	51	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	100	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	64		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	81	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	81	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	89		%	09/26/13	AW	30 - 150 %	
% TCMX	64		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDE	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDT	9.6	2.4	ug/Kg	09/26/13	MH	SW8081	
a-BHC	ND	3.9	ug/Kg	09/26/13	MH	SW8081	
Alachlor	ND	3.9	ug/Kg	09/26/13	MH	SW8081	1
Aldrin	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
b-BHC	ND	3.9	ug/Kg	09/26/13	MH	SW8081	
Chlordane	ND	12	ug/Kg	09/26/13	MH	SW8081	
d-BHC	ND	3.9	ug/Kg	09/26/13	MH	SW8081	
Dieldrin	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
Endosulfan I	ND	3.9	ug/Kg	09/26/13	MH	SW8081	
Endosulfan II	ND	7.8	ug/Kg	09/26/13	MH	SW8081	
Endosulfan sulfate	ND	7.8	ug/Kg	09/26/13	MH	SW8081	
Endrin	ND	7.8	ug/Kg	09/26/13	MH	SW8081	
Endrin aldehyde	ND	7.8	ug/Kg	09/26/13	MH	SW8081	
Endrin ketone	ND	7.8	ug/Kg	09/26/13	MH	SW8081	
g-BHC	ND	1.2	ug/Kg	09/26/13	MH	SW8081	
Heptachlor	ND	2.4	ug/Kg	09/26/13	MH	SW8081	
Heptachlor epoxide	ND	3.9	ug/Kg	09/26/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	39	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	39	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	Interference		%	09/26/13	MH	30 - 150 %	
% TCMX	75		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.7	ug/Kg	09/26/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
2-Chlorotoluene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
2-Hexanone	ND	56	ug/Kg	09/26/13	R/P	SW8260	
2-Isopropyltoluene	ND	330	ug/Kg	10/02/13	R/P	SW8260	1
4-Chlorotoluene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	56	ug/Kg	09/26/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/26/13	R/P	SW8260	
Acrylonitrile	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Benzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromobenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
Bromochloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromodichloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromoform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon Disulfide	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dibromochloromethane	ND	6.7	ug/Kg	09/26/13	R/P	SW8260	

Project ID: LARCHMONT
Client ID: B-4 (1-3 FT)

Phoenix I.D.: BF45188

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Ethylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Hexachlorobutadiene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
Isopropylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
m&p-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	67	ug/Kg	09/26/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	09/26/13	R/P	SW8260	
Methylene chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Naphthalene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
n-Butylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
n-Propylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
o-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
p-Isopropyltoluene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
sec-Butylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
Styrene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
tert-Butylbenzene	ND	330	ug/Kg	10/02/13	R/P	SW8260	
Tetrachloroethene	2400	330	ug/Kg	10/02/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	22	ug/Kg	09/26/13	R/P	SW8260	1
Toluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Total Xylenes	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	650	ug/Kg	10/02/13	R/P	SW8260	
Trichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Vinyl chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	10/02/13	R/P	70 - 130 %	
% Bromofluorobenzene	92		%	10/02/13	R/P	70 - 130 %	
% Dibromofluoromethane	124		%	09/26/13	R/P	70 - 130 %	
% Toluene-d8	98		%	09/26/13	R/P	70 - 130 %	
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
1,2,4-Trichlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
1,2-Dichlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
1,2-Diphenylhydrazine	ND	400	ug/Kg	09/26/13	DD	SW 8270	
1,3-Dichlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
1,4-Dichlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,4,5-Trichlorophenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,4,6-Trichlorophenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,4-Dichlorophenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,4-Dimethylphenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,4-Dinitrophenol	ND	640	ug/Kg	09/26/13	DD	SW 8270	
2,4-Dinitrotoluene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2,6-Dinitrotoluene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2-Chloronaphthalene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2-Chlorophenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-4 (1-3 FT)

Phoenix I.D.: BF45188

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	280	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	640	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	280	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	640	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	400	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	280	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	640	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	890	280	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	1200	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	390	280	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	2300	280	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	480	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	2800	280	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	4600	280	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	1600	280	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	1700	280	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	400	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	600	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	2400	280	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	520	280	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	3100	280	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	1500	280	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	400	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-4 (1-3 FT)

Phoenix I.D.: BF45188

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	400	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	640	280	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	280	ug/Kg	09/26/13	DD	SW 8270
Pyrene	3000	280	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	400	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	88		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	94		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	76		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	90		%	09/26/13	DD	30 - 130 %
% Phenol-d5	86		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	93		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

8260 Analysis:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	11:15
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45189

Project ID: LARCHMONT
Client ID: B-5 (5-7 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	09/28/13	LK	SW6010
Aluminum	13200	59	mg/Kg	09/28/13	LK	SW6010
Arsenic	1.3	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	176	0.40	mg/Kg	09/28/13	LK	SW6010
Beryllium	0.34	0.32	mg/Kg	09/28/13	LK	SW6010
Calcium	4780	5.9	mg/Kg	09/28/13	LK	SW6010
Cadmium	1.12	0.40	mg/Kg	09/28/13	LK	SW6010
Cobalt	12.8	0.40	mg/Kg	09/28/13	LK	SW6010
Chromium	35.0	0.40	mg/Kg	09/28/13	LK	SW6010
Copper	34.2	0.40	mg/kg	09/28/13	LK	SW6010
Iron	27800	59	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.06	0.06	mg/Kg	09/26/13	RS	SW-7471
Potassium	5430	59	mg/Kg	09/28/13	LK	SW6010
Magnesium	6520	5.9	mg/Kg	09/28/13	LK	SW6010
Manganese	526	4.0	mg/Kg	09/28/13	LK	SW6010
Sodium	218	5.9	mg/Kg	09/28/13	LK	SW6010
Nickel	27.2	0.40	mg/Kg	09/28/13	LK	SW6010
Lead	9.46	0.40	mg/Kg	09/28/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.6	3.6	mg/Kg	09/28/13	LK	SW6010
Vanadium	41.7	0.40	mg/Kg	09/28/13	LK	SW6010
Zinc	58.5	0.40	mg/Kg	09/28/13	LK	SW6010
Percent Solid	89		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-5 (5-7 FT)

Phoenix I.D.: BF45189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/24/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	460	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	46	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	92	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	46	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	92	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	68		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1221	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1232	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1242	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1248	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1254	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1260	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1262	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1268	ND	75	ug/Kg	09/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	75		%	09/26/13	AW	30 - 150 %
% TCMX	52		%	09/26/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4,4' -DDD	ND	2.2	ug/Kg	09/26/13	MH	SW8081
4,4' -DDE	ND	2.2	ug/Kg	09/26/13	MH	SW8081
4,4' -DDT	ND	2.2	ug/Kg	09/26/13	MH	SW8081
a-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Alachlor	ND	3.6	ug/Kg	09/26/13	MH	SW8081 [1]
Aldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081
b-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Chlordane	290	11	ug/Kg	09/26/13	MH	SW8081
d-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Dieldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081
Endosulfan I	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Endosulfan II	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endosulfan sulfate	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin aldehyde	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin ketone	ND	7.2	ug/Kg	09/26/13	MH	SW8081
g-BHC	ND	1.1	ug/Kg	09/26/13	MH	SW8081
Heptachlor	ND	2.2	ug/Kg	09/26/13	MH	SW8081
Heptachlor epoxide	ND	3.6	ug/Kg	09/26/13	MH	SW8081

Project ID: LARCHMONT
Client ID: B-5 (5-7 FT)

Phoenix I.D.: BF45189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	36	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	36	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	86		%	09/26/13	MH	30 - 150 %	
% TCMX	59		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,1,1-Trichloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,1,2,2-Tetrachloroethane	ND	340	ug/Kg	09/26/13	PS	SW8260	
1,1,2-Trichloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloroethene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloropropene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2,3-Trichlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2,3-Trichloropropane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2,4-Trichlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2,4-Trimethylbenzene	5200	560	ug/Kg	09/26/13	PS	SW8260	
1,2-Dibromo-3-chloropropane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2-Dibromoethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichloropropane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,3,5-Trimethylbenzene	3600	560	ug/Kg	09/26/13	PS	SW8260	
1,3-Dichlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,3-Dichloropropane	ND	560	ug/Kg	09/26/13	PS	SW8260	
1,4-Dichlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
2,2-Dichloropropane	ND	560	ug/Kg	09/26/13	PS	SW8260	
2-Chlorotoluene	ND	560	ug/Kg	09/26/13	PS	SW8260	
2-Hexanone	ND	2800	ug/Kg	09/26/13	PS	SW8260	
2-Isopropyltoluene	680	560	ug/Kg	09/26/13	PS	SW8260	1
4-Chlorotoluene	ND	560	ug/Kg	09/26/13	PS	SW8260	
4-Methyl-2-pentanone	ND	2800	ug/Kg	09/26/13	PS	SW8260	
Acetone	ND	3400	ug/Kg	09/26/13	PS	SW8260	
Acrylonitrile	ND	560	ug/Kg	09/26/13	PS	SW8260	
Benzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Bromobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Bromochloromethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Bromodichloromethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Bromoform	ND	560	ug/Kg	09/26/13	PS	SW8260	
Bromomethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Carbon Disulfide	ND	560	ug/Kg	09/26/13	PS	SW8260	
Carbon tetrachloride	ND	560	ug/Kg	09/26/13	PS	SW8260	
Chlorobenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Chloroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Chloroform	ND	560	ug/Kg	09/26/13	PS	SW8260	
Chloromethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
cis-1,2-Dichloroethene	ND	560	ug/Kg	09/26/13	PS	SW8260	
cis-1,3-Dichloropropene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Dibromochloromethane	ND	340	ug/Kg	09/26/13	PS	SW8260	

Project ID: LARCHMONT
Client ID: B-5 (5-7 FT)

Phoenix I.D.: BF45189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Dichlorodifluoromethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Ethylbenzene	4500	560	ug/Kg	09/26/13	PS	SW8260	
Hexachlorobutadiene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Isopropylbenzene	2300	560	ug/Kg	09/26/13	PS	SW8260	
m&p-Xylene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Methyl Ethyl Ketone	ND	3400	ug/Kg	09/26/13	PS	SW8260	
Methyl t-butyl ether (MTBE)	ND	1100	ug/Kg	09/26/13	PS	SW8260	
Methylene chloride	ND	560	ug/Kg	09/26/13	PS	SW8260	
Naphthalene	9900	560	ug/Kg	09/26/13	PS	SW8260	
n-Butylbenzene	2900	560	ug/Kg	09/26/13	PS	SW8260	
n-Propylbenzene	3800	560	ug/Kg	09/26/13	PS	SW8260	
o-Xylene	ND	560	ug/Kg	09/26/13	PS	SW8260	
p-Isopropyltoluene	1500	560	ug/Kg	09/26/13	PS	SW8260	
sec-Butylbenzene	4100	560	ug/Kg	09/26/13	PS	SW8260	
Styrene	ND	560	ug/Kg	09/26/13	PS	SW8260	
tert-Butylbenzene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Tetrachloroethene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Tetrahydrofuran (THF)	ND	1100	ug/Kg	09/26/13	PS	SW8260	1
Toluene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Total Xylenes	ND	560	ug/Kg	09/26/13	PS	SW8260	
trans-1,2-Dichloroethene	ND	560	ug/Kg	09/26/13	PS	SW8260	
trans-1,3-Dichloropropene	ND	560	ug/Kg	09/26/13	PS	SW8260	
trans-1,4-dichloro-2-butene	ND	1100	ug/Kg	09/26/13	PS	SW8260	
Trichloroethene	ND	560	ug/Kg	09/26/13	PS	SW8260	
Trichlorofluoromethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Trichlorotrifluoroethane	ND	560	ug/Kg	09/26/13	PS	SW8260	
Vinyl chloride	ND	560	ug/Kg	09/26/13	PS	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	09/26/13	PS	70 - 130 %	
% Bromofluorobenzene	122		%	09/26/13	PS	70 - 130 %	
% Dibromofluoromethane	98		%	09/26/13	PS	70 - 130 %	
% Toluene-d8	105		%	09/26/13	PS	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	3500	260	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	400	260	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	270	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	550	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	680	260	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	710	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	800	260	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-5 (5-7 FT)

Phoenix I.D.: BF45189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/26/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	09/26/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	09/26/13	DD	SW 8270	
Phenanthrene	1600	260	ug/Kg	09/26/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Pyrene	720	260	ug/Kg	09/26/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	09/26/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	115		%	09/26/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	96		%	09/26/13	DD	30 - 130 %	
% 2-Fluorophenol	95		%	09/26/13	DD	30 - 130 %	
% Nitrobenzene-d5	86		%	09/26/13	DD	30 - 130 %	
% Phenol-d5	97		%	09/26/13	DD	30 - 130 %	
% Terphenyl-d14	137		%	09/26/13	DD	30 - 130 %	3

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

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

Comments:

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

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	11:30
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45190

Project ID: LARCHMONT
Client ID: B-6 (1-3 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	09/28/13	LK	SW6010
Aluminum	8000	64	mg/Kg	09/28/13	LK	SW6010
Arsenic	10.5	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	79.5	0.42	mg/Kg	09/28/13	LK	SW6010
Beryllium	0.35	0.34	mg/Kg	09/28/13	LK	SW6010
Calcium	4580	6.4	mg/Kg	09/28/13	LK	SW6010
Cadmium	1.26	0.42	mg/Kg	09/28/13	LK	SW6010
Cobalt	10.1	0.42	mg/Kg	09/28/13	LK	SW6010
Chromium	18.4	0.42	mg/Kg	09/28/13	LK	SW6010
Copper	68.4	4.2	mg/kg	09/28/13	LK	SW6010
Iron	29400	64	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	09/26/13	RS	SW-7471
Potassium	2240	64	mg/Kg	09/28/13	LK	SW6010
Magnesium	2920	6.4	mg/Kg	09/28/13	LK	SW6010
Manganese	337	4.2	mg/Kg	09/28/13	LK	SW6010
Sodium	287	6.4	mg/Kg	09/28/13	LK	SW6010
Nickel	17.6	0.42	mg/Kg	09/28/13	LK	SW6010
Lead	116	0.42	mg/Kg	09/28/13	LK	SW6010
Antimony	< 5.0	5.0	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.8	3.8	mg/Kg	09/28/13	LK	SW6010
Vanadium	29.3	0.42	mg/Kg	09/28/13	LK	SW6010
Zinc	97.9	0.42	mg/Kg	09/28/13	LK	SW6010
Percent Solid	83		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-6 (1-3 FT)

Phoenix I.D.: BF45190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/24/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	50	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	50	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	50	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	500	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	50	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	99	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	50	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	99	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	52		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1221	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1232	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1242	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1248	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1254	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1260	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1262	ND	79	ug/Kg	09/26/13	AW	SW 8082
PCB-1268	ND	79	ug/Kg	09/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	102		%	09/26/13	AW	30 - 150 %
% TCMX	67		%	09/26/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4,4' -DDD	ND	2.4	ug/Kg	09/30/13	MH	SW8081
4,4' -DDE	ND	2.4	ug/Kg	09/30/13	MH	SW8081
4,4' -DDT	ND	2.4	ug/Kg	09/30/13	MH	SW8081
a-BHC	ND	3.8	ug/Kg	09/30/13	MH	SW8081
Alachlor	ND	3.8	ug/Kg	09/30/13	MH	SW8081 1
Aldrin	ND	1.2	ug/Kg	09/30/13	MH	SW8081
b-BHC	ND	3.8	ug/Kg	09/30/13	MH	SW8081
Chlordane	ND	12	ug/Kg	09/30/13	MH	SW8081
d-BHC	ND	3.8	ug/Kg	09/30/13	MH	SW8081
Dieldrin	ND	4.0	ug/Kg	09/30/13	MH	SW8081
Endosulfan I	ND	3.8	ug/Kg	09/30/13	MH	SW8081
Endosulfan II	ND	7.6	ug/Kg	09/30/13	MH	SW8081
Endosulfan sulfate	ND	7.6	ug/Kg	09/30/13	MH	SW8081
Endrin	ND	7.6	ug/Kg	09/30/13	MH	SW8081
Endrin aldehyde	ND	7.6	ug/Kg	09/30/13	MH	SW8081
Endrin ketone	ND	7.6	ug/Kg	09/30/13	MH	SW8081
g-BHC	ND	1.2	ug/Kg	09/30/13	MH	SW8081
Heptachlor	ND	2.4	ug/Kg	09/30/13	MH	SW8081
Heptachlor epoxide	ND	3.8	ug/Kg	09/30/13	MH	SW8081

Project ID: LARCHMONT
Client ID: B-6 (1-3 FT)

Phoenix I.D.: BF45190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	38	ug/Kg	09/30/13	MH	SW8081	
Toxaphene	ND	38	ug/Kg	09/30/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	112		%	09/30/13	MH	30 - 150 %	
% TCMX	72		%	09/30/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.8	ug/Kg	09/26/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
2-Chlorotoluene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
2-Hexanone	ND	57	ug/Kg	09/26/13	R/P	SW8260	
2-Isopropyltoluene	ND	300	ug/Kg	10/02/13	R/P	SW8260	1
4-Chlorotoluene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	57	ug/Kg	09/26/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/26/13	R/P	SW8260	
Acrylonitrile	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Benzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromobenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
Bromochloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromodichloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromoform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon Disulfide	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dibromochloromethane	ND	6.8	ug/Kg	09/26/13	R/P	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Ethylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Hexachlorobutadiene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
Isopropylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
m&p-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	68	ug/Kg	09/26/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	23	ug/Kg	09/26/13	R/P	SW8260	
Methylene chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Naphthalene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
n-Butylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
n-Propylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
o-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
p-Isopropyltoluene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
sec-Butylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
Styrene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
tert-Butylbenzene	ND	300	ug/Kg	10/02/13	R/P	SW8260	
Tetrachloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	23	ug/Kg	09/26/13	R/P	SW8260	1
Toluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Total Xylenes	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	600	ug/Kg	10/02/13	R/P	SW8260	
Trichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Vinyl chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	10/02/13	R/P	70 - 130 %	
% Bromofluorobenzene	89		%	10/02/13	R/P	70 - 130 %	
% Dibromofluoromethane	114		%	09/26/13	R/P	70 - 130 %	
% Toluene-d8	98		%	09/26/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	800	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	560	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	560	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	560	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	560	ug/Kg	09/26/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-6 (1-3 FT)

Phoenix I.D.: BF45190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	1100	560	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	560	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	560	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	800	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	560	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	2300	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	800	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	560	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	560	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	560	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	2300	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	2300	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	570	560	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	960	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	590	560	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	1100	560	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	2300	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	800	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	560	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	1200	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	830	560	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	1000	560	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	650	560	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	560	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	800	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-6 (1-3 FT)

Phoenix I.D.: BF45190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	560	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	800	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	800	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	800	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	820	560	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	560	ug/Kg	09/26/13	DD	SW 8270
Pyrene	940	560	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	800	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	76		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	74		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	67		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	09/26/13	DD	30 - 130 %
% Phenol-d5	79		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	84		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

8260 Analysis:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

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

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
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	11:45
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45191

Project ID: LARCHMONT
Client ID: B-7 (1-3 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	09/28/13	LK	SW6010
Aluminum	7940	59	mg/Kg	09/28/13	LK	SW6010
Arsenic	40.1	0.8	mg/Kg	09/28/13	LK	SW6010
Barium	63.2	0.39	mg/Kg	09/28/13	LK	SW6010
Beryllium	< 0.32	0.32	mg/Kg	09/28/13	LK	SW6010
Calcium	4060	5.9	mg/Kg	09/28/13	LK	SW6010
Cadmium	2.31	0.39	mg/Kg	09/28/13	LK	SW6010
Cobalt	12.0	0.39	mg/Kg	09/28/13	LK	SW6010
Chromium	17.5	0.39	mg/Kg	09/28/13	LK	SW6010
Copper	161	3.9	mg/kg	09/28/13	LK	SW6010
Iron	40100	59	mg/Kg	09/28/13	LK	SW6010
Mercury	0.12	0.07	mg/Kg	09/26/13	RS	SW-7471
Potassium	905	59	mg/Kg	09/28/13	LK	SW6010
Magnesium	3080	5.9	mg/Kg	09/28/13	LK	SW6010
Manganese	399	3.9	mg/Kg	09/28/13	LK	SW6010
Sodium	298	5.9	mg/Kg	09/28/13	LK	SW6010
Nickel	20.8	0.39	mg/Kg	09/28/13	LK	SW6010
Lead	229	3.9	mg/Kg	09/28/13	LK	SW6010
Antimony	< 8.0	8.0	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	09/30/13	EK	SW6010
Thallium	< 3.6	3.6	mg/Kg	09/28/13	LK	SW6010
Vanadium	41.1	0.39	mg/Kg	09/28/13	LK	SW6010
Zinc	222	3.9	mg/Kg	09/28/13	LK	SW6010
Percent Solid	88		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-7 (1-3 FT)

Phoenix I.D.: BF45191

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	470	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	94	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	94	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	67		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	75	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	75	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	101		%	09/26/13	AW	30 - 150 %	
% TCMX	67		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	7.2	ug/Kg	09/30/13	MH	SW8081	
4,4' -DDE	ND	2.7	ug/Kg	09/30/13	MH	SW8081	
4,4' -DDT	ND*	7.5	ug/Kg	09/30/13	MH	SW8081	
a-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Alachlor	ND	3.6	ug/Kg	09/30/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	09/30/13	MH	SW8081	
b-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	09/30/13	MH	SW8081	
d-BHC	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Dieldrin	ND*	9.0	ug/Kg	09/30/13	MH	SW8081	
Endosulfan I	ND	3.6	ug/Kg	09/30/13	MH	SW8081	
Endosulfan II	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endosulfan sulfate	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endrin	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endrin aldehyde	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
Endrin ketone	ND	7.2	ug/Kg	09/30/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	09/30/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	09/30/13	MH	SW8081	
Heptachlor epoxide	ND	3.6	ug/Kg	09/30/13	MH	SW8081	

Project ID: LARCHMONT
Client ID: B-7 (1-3 FT)

Phoenix I.D.: BF45191

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	36	ug/Kg	09/30/13	MH	SW8081	
Toxaphene	ND	36	ug/Kg	09/30/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	113		%	09/30/13	MH	30 - 150 %	
% TCMX	74		%	09/30/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,1,1-Trichloroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,1,2,2-Tetrachloroethane	ND	12	ug/Kg	09/26/13	PS	SW8260	
1,1,2-Trichloroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloroethene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,1-Dichloropropene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2,3-Trichlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2,3-Trichloropropane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2,4-Trichlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2,4-Trimethylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2-Dibromo-3-chloropropane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2-Dibromoethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichloroethane	ND	20	ug/Kg	09/26/13	PS	SW8260	
1,2-Dichloropropane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,3,5-Trimethylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,3-Dichlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,3-Dichloropropane	ND	21	ug/Kg	09/26/13	PS	SW8260	
1,4-Dichlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
2,2-Dichloropropane	ND	21	ug/Kg	09/26/13	PS	SW8260	
2-Chlorotoluene	ND	21	ug/Kg	09/26/13	PS	SW8260	
2-Hexanone	ND	100	ug/Kg	09/26/13	PS	SW8260	
2-Isopropyltoluene	ND	21	ug/Kg	09/26/13	PS	SW8260	1
4-Chlorotoluene	ND	21	ug/Kg	09/26/13	PS	SW8260	
4-Methyl-2-pentanone	ND	100	ug/Kg	09/26/13	PS	SW8260	
Acetone	ND	120	ug/Kg	09/26/13	PS	SW8260	
Acrylonitrile	ND	21	ug/Kg	09/26/13	PS	SW8260	
Benzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Bromobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Bromochloromethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Bromodichloromethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Bromoform	ND	21	ug/Kg	09/26/13	PS	SW8260	
Bromomethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Carbon Disulfide	ND	21	ug/Kg	09/26/13	PS	SW8260	
Carbon tetrachloride	ND	21	ug/Kg	09/26/13	PS	SW8260	
Chlorobenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Chloroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Chloroform	ND	21	ug/Kg	09/26/13	PS	SW8260	
Chloromethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
cis-1,2-Dichloroethene	ND	21	ug/Kg	09/26/13	PS	SW8260	
cis-1,3-Dichloropropene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Dibromochloromethane	ND	12	ug/Kg	09/26/13	PS	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Dichlorodifluoromethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Ethylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Hexachlorobutadiene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Isopropylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
m&p-Xylene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Methyl Ethyl Ketone	ND	120	ug/Kg	09/26/13	PS	SW8260	
Methyl t-butyl ether (MTBE)	ND	41	ug/Kg	09/26/13	PS	SW8260	
Methylene chloride	ND	21	ug/Kg	09/26/13	PS	SW8260	
Naphthalene	ND	21	ug/Kg	09/26/13	PS	SW8260	
n-Butylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
n-Propylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
o-Xylene	ND	21	ug/Kg	09/26/13	PS	SW8260	
p-Isopropyltoluene	ND	21	ug/Kg	09/26/13	PS	SW8260	
sec-Butylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Styrene	ND	21	ug/Kg	09/26/13	PS	SW8260	
tert-Butylbenzene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Tetrachloroethene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Tetrahydrofuran (THF)	ND	41	ug/Kg	09/26/13	PS	SW8260	1
Toluene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Total Xylenes	ND	21	ug/Kg	09/26/13	PS	SW8260	
trans-1,2-Dichloroethene	ND	21	ug/Kg	09/26/13	PS	SW8260	
trans-1,3-Dichloropropene	ND	21	ug/Kg	09/26/13	PS	SW8260	
trans-1,4-dichloro-2-butene	ND	41	ug/Kg	09/26/13	PS	SW8260	
Trichloroethene	ND	21	ug/Kg	09/26/13	PS	SW8260	
Trichlorofluoromethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Trichlorotrifluoroethane	ND	21	ug/Kg	09/26/13	PS	SW8260	
Vinyl chloride	ND	20	ug/Kg	09/26/13	PS	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	121		%	09/26/13	PS	70 - 130 %	
% Bromofluorobenzene	84		%	09/26/13	PS	70 - 130 %	
% Dibromofluoromethane	113		%	09/26/13	PS	70 - 130 %	
% Toluene-d8	99		%	09/26/13	PS	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	3000	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	3000	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	1500	1300	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	5500	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	2700	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	2300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	2500	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	4800	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	1600	1300	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	5500	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1900	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	2800	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	2600	1300	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	2700	1300	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1900	ug/Kg	09/26/13	DD	SW 8270	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	1900	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	ND	1300	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	1300	ug/Kg	09/26/13	DD	SW 8270
Pyrene	3200	1300	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	1900	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	87		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	89		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	72		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	98		%	09/26/13	DD	30 - 130 %
% Phenol-d5	85		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	94		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

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

* 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
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	12:00
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45192

Project ID: LARCHMONT
Client ID: B-8 (3-5 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	09/28/13	LK	SW6010
Aluminum	15000	53	mg/Kg	09/28/13	LK	SW6010
Arsenic	2.0	0.7	mg/Kg	09/28/13	LK	SW6010
Barium	153	0.36	mg/Kg	09/28/13	LK	SW6010
Beryllium	0.41	0.28	mg/Kg	09/28/13	LK	SW6010
Calcium	1630	5.3	mg/Kg	09/28/13	LK	SW6010
Cadmium	1.26	0.36	mg/Kg	09/28/13	LK	SW6010
Cobalt	14.4	0.36	mg/Kg	09/28/13	LK	SW6010
Chromium	34.7	0.36	mg/Kg	09/28/13	LK	SW6010
Copper	31.6	3.6	mg/kg	09/28/13	LK	SW6010
Iron	30100	53	mg/Kg	09/28/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	09/26/13	RS	SW-7471
Potassium	6000	53	mg/Kg	09/28/13	LK	SW6010
Magnesium	7270	53	mg/Kg	09/28/13	LK	SW6010
Manganese	556	3.6	mg/Kg	09/28/13	LK	SW6010
Sodium	134	5.3	mg/Kg	09/28/13	LK	SW6010
Nickel	24.0	0.36	mg/Kg	09/28/13	LK	SW6010
Lead	7.00	0.36	mg/Kg	09/28/13	LK	SW6010
Antimony	< 3.6	3.6	mg/Kg	09/28/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	09/28/13	LK	SW6010
Thallium	< 3.2	3.2	mg/Kg	09/28/13	LK	SW6010
Vanadium	46.8	0.36	mg/Kg	09/28/13	LK	SW6010
Zinc	59.5	0.36	mg/Kg	09/28/13	LK	SW6010
Percent Solid	89		%	09/25/13	W	E160.3
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/26/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: B-8 (3-5 FT)

Phoenix I.D.: BF45192

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/25/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	47	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	470	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	94	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	47	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	94	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	63		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	74	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	74	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	90		%	09/26/13	AW	30 - 150 %	
% TCMX	74		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
a-BHC	ND	3.5	ug/Kg	09/26/13	MH	SW8081	
Alachlor	ND	3.5	ug/Kg	09/26/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
b-BHC	ND	3.5	ug/Kg	09/26/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	09/26/13	MH	SW8081	
d-BHC	ND	3.5	ug/Kg	09/26/13	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Endosulfan I	ND	3.5	ug/Kg	09/26/13	MH	SW8081	
Endosulfan II	ND	7.1	ug/Kg	09/26/13	MH	SW8081	
Endosulfan sulfate	ND	7.1	ug/Kg	09/26/13	MH	SW8081	
Endrin	ND	7.1	ug/Kg	09/26/13	MH	SW8081	
Endrin aldehyde	ND	7.1	ug/Kg	09/26/13	MH	SW8081	
Endrin ketone	ND	7.1	ug/Kg	09/26/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
Heptachlor epoxide	ND	3.5	ug/Kg	09/26/13	MH	SW8081	

Project ID: LARCHMONT
Client ID: B-8 (3-5 FT)

Phoenix I.D.: BF45192

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	35	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	35	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	109		%	09/26/13	MH	30 - 150 %	
% TCMX	82		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	09/25/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloroethene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,1-Dichloropropene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dibromoethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,2-Dichloropropane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,3-Dichloropropane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
2,2-Dichloropropane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
2-Chlorotoluene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
2-Hexanone	ND	33	ug/Kg	09/25/13	R/P	SW8260	
2-Isopropyltoluene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	1
4-Chlorotoluene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	33	ug/Kg	09/25/13	R/P	SW8260	
Acetone	ND	40	ug/Kg	09/25/13	R/P	SW8260	
Acrylonitrile	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Benzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Bromobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Bromochloromethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Bromodichloromethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Bromoform	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Bromomethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Carbon Disulfide	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Carbon tetrachloride	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Chlorobenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Chloroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Chloroform	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Chloromethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Dibromochloromethane	ND	4.0	ug/Kg	09/25/13	R/P	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Dichlorodifluoromethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Ethylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Hexachlorobutadiene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Isopropylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
m&p-Xylene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	40	ug/Kg	09/25/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	09/25/13	R/P	SW8260	
Methylene chloride	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Naphthalene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
n-Butylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
n-Propylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
o-Xylene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
p-Isopropyltoluene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
sec-Butylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Styrene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
tert-Butylbenzene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Tetrachloroethene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	13	ug/Kg	09/25/13	R/P	SW8260	1
Toluene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Total Xylenes	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	09/25/13	R/P	SW8260	
Trichloroethene	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Trichlorofluoromethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
Vinyl chloride	ND	6.6	ug/Kg	09/25/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	09/25/13	R/P	70 - 130 %	
% Bromofluorobenzene	94		%	09/25/13	R/P	70 - 130 %	
% Dibromofluoromethane	109		%	09/25/13	R/P	70 - 130 %	
% Toluene-d8	98		%	09/25/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-8 (3-5 FT)

Phoenix I.D.: BF45192

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	590	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	590	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	590	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	560	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-8 (3-5 FT)

Phoenix I.D.: BF45192

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	370	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	114		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	79		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	100		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	62		%	09/26/13	DD	30 - 130 %
% Phenol-d5	94		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	85		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	12:30
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45193

Project ID: LARCHMONT
Client ID: B-9 (3-5 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	09/27/13	EK	SW6010	
Aluminum	18100	51	mg/Kg	09/27/13	EK	SW6010	
Arsenic	< 0.7	0.7	mg/Kg	09/27/13	EK	SW6010	
Barium	123	0.34	mg/Kg	09/27/13	EK	SW6010	
Beryllium	0.58	0.27	mg/Kg	09/27/13	EK	SW6010	
Calcium	1600	5.1	mg/Kg	09/27/13	EK	SW6010	
Cadmium	1.52	0.34	mg/Kg	09/27/13	EK	SW6010	
Cobalt	23.7	0.34	mg/Kg	09/27/13	EK	SW6010	
Chromium	38.9	0.34	mg/Kg	09/27/13	EK	SW6010	
Copper	90.9	0.34	mg/kg	09/27/13	EK	SW6010	
Iron	33200	51	mg/Kg	09/27/13	EK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	09/26/13	RS	SW-7471	
Potassium	6650	51	mg/Kg	09/27/13	EK	SW6010	
Magnesium	8860	51	mg/Kg	09/27/13	EK	SW6010	
Manganese	715	3.4	mg/Kg	09/27/13	EK	SW6010	
Sodium	299	5.1	mg/Kg	09/27/13	EK	SW6010	B
Nickel	35.8	0.34	mg/Kg	09/27/13	EK	SW6010	
Lead	7.26	0.34	mg/Kg	09/27/13	EK	SW6010	B
Antimony	< 3.4	3.4	mg/Kg	09/27/13	EK	SW6010	
Selenium	< 2.5	2.5	mg/Kg	09/27/13	EK	SW6010	
Thallium	< 3.1	3.1	mg/Kg	09/28/13	LK	SW6010	
Vanadium	66.7	0.34	mg/Kg	09/27/13	EK	SW6010	
Zinc	74.4	0.34	mg/Kg	09/27/13	EK	SW6010	
Percent Solid	87		%	09/25/13	W	E160.3	
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545	
Mercury Digestion	Completed			09/26/13	I/I	SW7471	

Project ID: LARCHMONT
Client ID: B-9 (3-5 FT)

Phoenix I.D.: BF45193

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/24/13		SW5035
Chlorinated Herbicides						
2,4,5-T	ND	47	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	47	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	47	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	470	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	47	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	94	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	47	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	94	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	63		%	09/27/13	CE	30 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1221	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1232	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1242	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1248	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1254	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1260	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1262	ND	75	ug/Kg	09/26/13	AW	SW 8082
PCB-1268	ND	75	ug/Kg	09/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	94		%	09/26/13	AW	30 - 150 %
% TCMX	67		%	09/26/13	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	2.2	ug/Kg	09/26/13	MH	SW8081
4,4' -DDE	ND	2.2	ug/Kg	09/26/13	MH	SW8081
4,4' -DDT	ND	2.2	ug/Kg	09/26/13	MH	SW8081
a-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Alachlor	ND	3.6	ug/Kg	09/26/13	MH	SW8081 1
Aldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081
b-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Chlordane	53	11	ug/Kg	09/26/13	MH	SW8081
d-BHC	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Dieldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081
Endosulfan I	ND	3.6	ug/Kg	09/26/13	MH	SW8081
Endosulfan II	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endosulfan sulfate	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin aldehyde	ND	7.2	ug/Kg	09/26/13	MH	SW8081
Endrin ketone	ND	7.2	ug/Kg	09/26/13	MH	SW8081
g-BHC	ND	1.1	ug/Kg	09/26/13	MH	SW8081
Heptachlor	ND	2.2	ug/Kg	09/26/13	MH	SW8081
Heptachlor epoxide	ND	3.6	ug/Kg	09/26/13	MH	SW8081

Project ID: LARCHMONT
Client ID: B-9 (3-5 FT)

Phoenix I.D.: BF45193

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	36	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	36	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	120		%	09/26/13	MH	30 - 150 %	
% TCMX	94		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	8.1	ug/Kg	09/26/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloropropene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dibromoethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloropropane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,3-Dichloropropane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
2,2-Dichloropropane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
2-Chlorotoluene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
2-Hexanone	ND	68	ug/Kg	09/26/13	R/P	SW8260	
2-Isopropyltoluene	ND	14	ug/Kg	09/26/13	R/P	SW8260	1
4-Chlorotoluene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	68	ug/Kg	09/26/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/26/13	R/P	SW8260	
Acrylonitrile	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Benzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Bromobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Bromochloromethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Bromodichloromethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Bromoform	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Bromomethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Carbon Disulfide	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Carbon tetrachloride	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Chlorobenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Chloroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Chloroform	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Chloromethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Dibromochloromethane	ND	8.1	ug/Kg	09/26/13	R/P	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Dichlorodifluoromethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Ethylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Hexachlorobutadiene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Isopropylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
m&p-Xylene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	81	ug/Kg	09/26/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	27	ug/Kg	09/26/13	R/P	SW8260	
Methylene chloride	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Naphthalene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
n-Butylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
n-Propylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
o-Xylene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
p-Isopropyltoluene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
sec-Butylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Styrene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
tert-Butylbenzene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Tetrachloroethene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	27	ug/Kg	09/26/13	R/P	SW8260	1
Toluene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Total Xylenes	ND	14	ug/Kg	09/26/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	27	ug/Kg	09/26/13	R/P	SW8260	
Trichloroethene	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Trichlorofluoromethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	14	ug/Kg	09/26/13	R/P	SW8260	
Vinyl chloride	ND	14	ug/Kg	09/26/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	112		%	09/26/13	R/P	70 - 130 %	
% Bromofluorobenzene	92		%	09/26/13	R/P	70 - 130 %	
% Dibromofluoromethane	117		%	09/26/13	R/P	70 - 130 %	
% Toluene-d8	103		%	09/26/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-9 (3-5 FT)

Phoenix I.D.: BF45193

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	600	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	600	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	380	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	600	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	570	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	380	ug/Kg	09/26/13	DD	SW 8270	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	380	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	380	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	380	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	260	ug/Kg	09/26/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	380	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	98		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	85		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	82		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	09/26/13	DD	30 - 130 %
% Phenol-d5	89		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	106		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/24/13	12:45
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45194

Project ID: LARCHMONT
Client ID: B-10 (3-5 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	09/27/13	EK	SW6010	
Aluminum	17500	56	mg/Kg	09/27/13	EK	SW6010	
Arsenic	1.1	0.8	mg/Kg	09/27/13	EK	SW6010	
Barium	144	0.38	mg/Kg	09/27/13	EK	SW6010	
Beryllium	0.44	0.30	mg/Kg	09/27/13	EK	SW6010	
Calcium	1140	5.6	mg/Kg	09/27/13	EK	SW6010	
Cadmium	1.12	0.38	mg/Kg	09/27/13	EK	SW6010	
Cobalt	13.0	0.38	mg/Kg	09/27/13	EK	SW6010	
Chromium	41.4	0.38	mg/Kg	09/27/13	EK	SW6010	
Copper	38.4	0.38	mg/kg	09/27/13	EK	SW6010	
Iron	25400	56	mg/Kg	09/27/13	EK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	09/26/13	RS	SW-7471	
Potassium	5940	56	mg/Kg	09/27/13	EK	SW6010	
Magnesium	6950	56	mg/Kg	09/27/13	EK	SW6010	
Manganese	424	3.8	mg/Kg	09/27/13	EK	SW6010	
Sodium	196	5.6	mg/Kg	09/27/13	EK	SW6010	B
Nickel	24.8	0.38	mg/Kg	09/27/13	EK	SW6010	
Lead	5.79	0.38	mg/Kg	09/27/13	EK	SW6010	B
Antimony	< 3.8	3.8	mg/Kg	09/27/13	EK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	09/27/13	EK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	09/28/13	LK	SW6010	
Vanadium	43.0	0.38	mg/Kg	09/27/13	EK	SW6010	
Zinc	50.2	0.38	mg/Kg	09/27/13	EK	SW6010	
Percent Solid	90		%	09/25/13	W	E160.3	
Soil Extraction for PCB	Completed			09/25/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			09/25/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			09/25/13	JJ/FV	SW3545	
Mercury Digestion	Completed			09/26/13	I/I	SW7471	

Project ID: LARCHMONT
Client ID: B-10 (3-5 FT)

Phoenix I.D.: BF45194

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Soil Extraction for Herbicide	Completed			09/25/13	M/D	SW8151	
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			09/24/13		SW5035	
Chlorinated Herbicides							
2,4,5-T	ND	46	ug/Kg	09/27/13	CE	SW8151	
2,4,5-TP (Silvex)	ND	46	ug/Kg	09/27/13	CE	SW8151	
2,4-D	ND	46	ug/Kg	09/27/13	CE	SW8151	
2,4-DB	ND	460	ug/Kg	09/27/13	CE	SW8151	
Dalapon	ND	46	ug/Kg	09/27/13	CE	SW8151	
Dicamba	ND	92	ug/Kg	09/27/13	CE	SW8151	
Dichloroprop	ND	46	ug/Kg	09/27/13	CE	SW8151	
Dinoseb	ND	92	ug/Kg	09/27/13	CE	SW8151	
QA/QC Surrogates							
% DCAA	62		%	09/27/13	CE	30 - 150 %	
Polychlorinated Biphenyls							
PCB-1016	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1221	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1232	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1242	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1248	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1254	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1260	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1262	ND	72	ug/Kg	09/26/13	AW	SW 8082	
PCB-1268	ND	72	ug/Kg	09/26/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	94		%	09/26/13	AW	30 - 150 %	
% TCMX	65		%	09/26/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDE	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
4,4' -DDT	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
a-BHC	ND	3.4	ug/Kg	09/26/13	MH	SW8081	
Alachlor	ND	3.4	ug/Kg	09/26/13	MH	SW8081	1
Aldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
b-BHC	ND	3.4	ug/Kg	09/26/13	MH	SW8081	
Chlordane	ND	11	ug/Kg	09/26/13	MH	SW8081	
d-BHC	ND	3.4	ug/Kg	09/26/13	MH	SW8081	
Dieldrin	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Endosulfan I	ND	3.4	ug/Kg	09/26/13	MH	SW8081	
Endosulfan II	ND	6.9	ug/Kg	09/26/13	MH	SW8081	
Endosulfan sulfate	ND	6.9	ug/Kg	09/26/13	MH	SW8081	
Endrin	ND	6.9	ug/Kg	09/26/13	MH	SW8081	
Endrin aldehyde	ND	6.9	ug/Kg	09/26/13	MH	SW8081	
Endrin ketone	ND	6.9	ug/Kg	09/26/13	MH	SW8081	
g-BHC	ND	1.1	ug/Kg	09/26/13	MH	SW8081	
Heptachlor	ND	2.2	ug/Kg	09/26/13	MH	SW8081	
Heptachlor epoxide	ND	3.4	ug/Kg	09/26/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	34	ug/Kg	09/26/13	MH	SW8081	
Toxaphene	ND	34	ug/Kg	09/26/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	92		%	09/26/13	MH	30 - 150 %	
% TCMX	85		%	09/26/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.7	ug/Kg	09/26/13	R/P	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,3-Trichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,4-Trichlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2,4-Trimethylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,3,5-Trimethylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,3-Dichlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
1,4-Dichlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
2-Chlorotoluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
2-Hexanone	ND	56	ug/Kg	09/26/13	R/P	SW8260	
2-Isopropyltoluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	1
4-Chlorotoluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
4-Methyl-2-pentanone	ND	56	ug/Kg	09/26/13	R/P	SW8260	
Acetone	ND	50	ug/Kg	09/26/13	R/P	SW8260	
Acrylonitrile	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Benzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromochloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromodichloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromoform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Bromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon Disulfide	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chlorobenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloroform	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Chloromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dibromochloromethane	ND	6.7	ug/Kg	09/26/13	R/P	SW8260	

Project ID: LARCHMONT
Client ID: B-10 (3-5 FT)

Phoenix I.D.: BF45194

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Ethylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Hexachlorobutadiene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Isopropylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
m&p-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	67	ug/Kg	09/26/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	09/26/13	R/P	SW8260	
Methylene chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Naphthalene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
n-Butylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
n-Propylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
o-Xylene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
p-Isopropyltoluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
sec-Butylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Styrene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
tert-Butylbenzene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Tetrachloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	22	ug/Kg	09/26/13	R/P	SW8260	1
Toluene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Total Xylenes	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	22	ug/Kg	09/26/13	R/P	SW8260	
Trichloroethene	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	09/26/13	R/P	SW8260	
Vinyl chloride	ND	11	ug/Kg	09/26/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	112		%	09/26/13	R/P	70 - 130 %	
% Bromofluorobenzene	91		%	09/26/13	R/P	70 - 130 %	
% Dibromofluoromethane	112		%	09/26/13	R/P	70 - 130 %	
% Toluene-d8	102		%	09/26/13	R/P	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	09/26/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	09/26/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	09/26/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	09/26/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	09/26/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	09/26/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: B-10 (3-5 FT)

Phoenix I.D.: BF45194

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	250	ug/Kg	09/26/13	DD	SW 8270	
2-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
2-Nitrophenol	ND	250	ug/Kg	09/26/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	09/26/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	250	ug/Kg	09/26/13	DD	SW 8270	
3-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	09/26/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	360	ug/Kg	09/26/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	250	ug/Kg	09/26/13	DD	SW 8270	
4-Chloroaniline	ND	250	ug/Kg	09/26/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	09/26/13	DD	SW 8270	
4-Nitroaniline	ND	580	ug/Kg	09/26/13	DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	09/26/13	DD	SW 8270	
Anthracene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benz(a)anthracene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benzidine	ND	430	ug/Kg	09/26/13	DD	SW 8270	
Benzo(a)pyrene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benzo(ghi)perylene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	09/26/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	09/26/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	09/26/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Carbazole	ND	540	ug/Kg	09/26/13	DD	SW 8270	
Chrysene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Fluoranthene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Fluorene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	09/26/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	360	ug/Kg	09/26/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: B-10 (3-5 FT)

Phoenix I.D.: BF45194

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	09/26/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	360	ug/Kg	09/26/13	DD	SW 8270
Pentachloronitrobenzene	ND	360	ug/Kg	09/26/13	DD	SW 8270
Pentachlorophenol	ND	360	ug/Kg	09/26/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	09/26/13	DD	SW 8270
Phenol	ND	250	ug/Kg	09/26/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	09/26/13	DD	SW 8270
Pyridine	ND	360	ug/Kg	09/26/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	91		%	09/26/13	DD	30 - 130 %
% 2-Fluorobiphenyl	78		%	09/26/13	DD	30 - 130 %
% 2-Fluorophenol	82		%	09/26/13	DD	30 - 130 %
% Nitrobenzene-d5	53		%	09/26/13	DD	30 - 130 %
% Phenol-d5	83		%	09/26/13	DD	30 - 130 %
% Terphenyl-d14	69		%	09/26/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	08/18/13	0:00
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45195

Project ID: LARCHMONT
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	08/18/13		E160.3
Field Extraction	Completed			08/18/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	09/25/13	R/P	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260
2-Hexanone	ND	25	ug/Kg	09/25/13	R/P	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260 [1]
4-Chlorotoluene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260

Project ID: LARCHMONT
Client ID: TRIP BLANK LOW

Phoenix I.D.: BF45195

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	25	ug/Kg	09/25/13	R/P	SW8260	
Acetone	ND	30	ug/Kg	09/25/13	R/P	SW8260	
Acrylonitrile	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Benzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Bromobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Bromochloromethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Bromoform	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Bromomethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Chloroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Chloroform	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Chloromethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Dibromochloromethane	ND	3.0	ug/Kg	09/25/13	R/P	SW8260	
Dibromomethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Hexachlorobutadiene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	30	ug/Kg	09/25/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	09/25/13	R/P	SW8260	
Methylene chloride	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Naphthalene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
n-Butylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
n-Propylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
o-Xylene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
p-Isopropyltoluene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
sec-Butylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Styrene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
tert-Butylbenzene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	09/25/13	R/P	SW8260	1
Toluene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Total Xylenes	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	09/25/13	R/P	SW8260	
Trichloroethene	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	09/25/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	09/25/13	R/P	70 - 130 %	
% Bromofluorobenzene	98		%	09/25/13	R/P	70 - 130 %	
% Dibromofluoromethane	107		%	09/25/13	R/P	70 - 130 %	

Project ID: LARCHMONT
Client ID: TRIP BLANK LOW

Phoenix I.D.: BF45195

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	101		%	09/25/13	R/P	70 - 130 %

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

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Analysis Report

October 03, 2013

FOR: Attn: Mr Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	08/18/13	0:00
Location Code:	GALLI-ENG	Received by:	SW	09/25/13	15:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45185
Phoenix ID: BF45196

Project ID: LARCHMONT
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	08/18/13		E160.3
Field Extraction	Completed			08/18/13		SW5035

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	09/25/13	R/P	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	09/25/13	R/P	SW8260
2-Chlorotoluene	ND	250	ug/Kg	09/25/13	R/P	SW8260
2-Hexanone	ND	1300	ug/Kg	09/25/13	R/P	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	09/25/13	R/P	SW8260 1
4-Chlorotoluene	ND	250	ug/Kg	09/25/13	R/P	SW8260

Project ID: LARCHMONT
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BF45196

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1300	ug/Kg	09/25/13	R/P	SW8260	
Acetone	ND	5000	ug/Kg	09/25/13	R/P	SW8260	
Acrylonitrile	ND	500	ug/Kg	09/25/13	R/P	SW8260	
Benzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Bromobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Bromochloromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Bromodichloromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Bromoform	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Bromomethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Carbon Disulfide	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Carbon tetrachloride	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Chlorobenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Chloroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Chloroform	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Chloromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
cis-1,2-Dichloroethene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
cis-1,3-Dichloropropene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Dibromochloromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Dibromomethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Dichlorodifluoromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Ethylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Hexachlorobutadiene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Isopropylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
m&p-Xylene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Methyl Ethyl Ketone	ND	3000	ug/Kg	09/25/13	R/P	SW8260	
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Methylene chloride	ND	500	ug/Kg	09/25/13	R/P	SW8260	
Naphthalene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
n-Butylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
n-Propylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
o-Xylene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
p-Isopropyltoluene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
sec-Butylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Styrene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
tert-Butylbenzene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Tetrachloroethene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Tetrahydrofuran (THF)	ND	500	ug/Kg	09/25/13	R/P	SW8260	1
Toluene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Total Xylenes	ND	250	ug/Kg	09/25/13	R/P	SW8260	
trans-1,2-Dichloroethene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
trans-1,3-Dichloropropene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	09/25/13	R/P	SW8260	
Trichloroethene	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Trichlorofluoromethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Trichlorotrifluoroethane	ND	250	ug/Kg	09/25/13	R/P	SW8260	
Vinyl chloride	ND	250	ug/Kg	09/25/13	R/P	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	09/25/13	R/P	70 - 130 %	
% Bromofluorobenzene	93		%	09/25/13	R/P	70 - 130 %	
% Dibromofluoromethane	96		%	09/25/13	R/P	70 - 130 %	

Project ID: LARCHMONT

Client ID: TRIP BLANK HIGH

Phoenix I.D.: BF45196

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	100		%	09/25/13	R/P	70 - 130 %

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

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 03, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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QA/QC Report

October 03, 2013

QA/QC Data

SDG I.D.: GBF45185

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 254769, QC Sample No: BF45028 (BF45185, BF45186, BF45187, BF45188, BF45189, BF45190)													
Mercury - Soil	BRL	<0.06	<0.08	NC	81.5	84.4	3.5	99.7	91.9	8.1	70 - 130	30	

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QA/QC Batch 254714, QC Sample No: BF45197 (BF45185, BF45186, BF45187, BF45188, BF45189, BF45190, BF45191, BF45192)

ICP Metals - Soil

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aluminum	BRL	1780	2460 *	32.1	88.3	94.7	7.0	NC	NC	NC	75 - 125	30	r
Antimony	BRL	<1.8	<3.7	NC	101	113	11.2	95.3	95.4	0.1	75 - 125	30	
Arsenic	BRL	1.5	3.58	NC	95.8	108	12.0	96.3	95.4	0.9	75 - 125	30	
Barium	BRL	7.7	11.9 *	42.9	98.3	112	13.0	105	103	1.9	75 - 125	30	r
Beryllium	BRL	<0.29	<0.30	NC	98.2	105	6.7	92.8	91.7	1.2	75 - 125	30	
Cadmium	BRL	<0.36	0.34 B	NC	92.7	101	8.6	91.0	90.7	0.3	75 - 125	30	
Calcium	BRL	164	343 *	70.6	91.3	104	13.0	105	63.4	49.4	75 - 125	30	m,r
Chromium	BRL	3.69	6.64 *	57.1	96.4	104	7.6	99.5	92.6	7.2	75 - 125	30	r
Cobalt	BRL	0.95	1.19	NC	98.7	108	9.0	93.9	92.9	1.1	75 - 125	30	
Copper	BRL	4.20	5.12	19.7	99.7	109	8.9	95.7	94.2	1.6	75 - 125	30	
Iron	BRL	3330	7700 *	79.2	99.1	117	16.6	NC	NC	NC	75 - 125	30	r
Lead	BRL	12.6	13.4	6.20	93.2	104	11.0	96.2	94.9	1.4	75 - 125	30	
Magnesium	BRL	197	229	15.0	93.8	106	12.2	108	70.6	41.9	75 - 125	30	m,r
Manganese	BRL	24.1	30.6	23.8	95.5	111	15.0	95.0	91.1	4.2	75 - 125	30	
Nickel	BRL	2.46	3.02	20.4	95.4	103	7.7	93.7	92.1	1.7	75 - 125	30	
Potassium	BRL	178	227	24.2	107	117	8.9	112	103	8.4	75 - 125	30	
Selenium	BRL	<1.4	<1.5	NC	89.6	102	12.9	86.8	85.9	1.0	75 - 125	30	
Silver	BRL	<0.36	<0.37	NC	87.4	99.1	12.5	89.6	87.2	2.7	75 - 125	30	
Sodium	BRL	<7	4.4 B	NC	114	124	8.4	119	120	0.8	75 - 125	30	
Thallium	BRL	<1.4	<3.3	NC	92.7	104	11.5	97.6	97.8	0.2	75 - 125	30	
Vanadium	BRL	4.5	8.81 *	64.8	95.7	108	12.1	94.3	89.1	5.7	75 - 125	30	r
Zinc	BRL	14.9	18.9	23.7	91.6	102	10.7	95.2	92.3	3.1	75 - 125	30	

QA/QC Batch 254770, QC Sample No: BF45205 (BF45191, BF45192, BF45193, BF45194)

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Mercury - Soil	BRL	<0.08	0.04 B	NC	84.8	85.3	0.6	115	109	5.4	70 - 130	30	

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QA/QC Batch 255007, QC Sample No: BF45589 (BF45193, BF45194)

ICP Metals - Soil

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aluminum	BRL	3580	3180	11.8	85.7	89.3	4.1	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.7	<3.3	NC	78.8	81.1	2.9	74.7	76.7	2.6	75 - 125	30	
Arsenic	BRL	1.3	2.60	NC	83.7	85.1	1.7	77.3	79.4	2.7	75 - 125	30	
Barium	BRL	31.0	44.2	35.1	97.7	98.5	0.8	80.9	83.6	3.3	75 - 125	30	r
Beryllium	BRL	<0.29	0.28	NC	90.3	94.3	4.3	86.0	87.9	2.2	75 - 125	30	
Cadmium	BRL	0.41	0.73	NC	82.7	83.3	0.7	76.4	78.3	2.5	75 - 125	30	
Calcium	BRL	1210	1610	28.4	90.3	91.4	1.2	NC	NC	NC	75 - 125	30	
Chromium	BRL	11.2	18.7	50.2	83.7	84.7	1.2	80.3	84.3	4.9	75 - 125	30	r

QA/QC Data

SDG I.D.: GBF45185

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Cobalt	BRL	3.59	3.85	7.00	85.0	87.3	2.7	78.3	80.6	2.9	75 - 125	30	
Copper	BRL	11.4	12.7	10.8	97.9	98.2	0.3	91.8	94.3	2.7	75 - 125	30	
Iron	BRL	7890	14300	57.8	90.9	97.6	7.1	NC	NC	NC	75 - 125	30	r
Lead	0.40	16.3	32.5	66.4	79.8	81.9	2.6	75.6	77.1	2.0	75 - 125	30	r
Magnesium	BRL	1400	1310	6.60	88.3	89.4	1.2	NC	NC	NC	75 - 125	30	
Manganese	BRL	72.4	117	47.1	88.0	88.6	0.7	71.7	72.2	0.7	75 - 125	30	m,r
Nickel	BRL	7.64	8.57	11.5	82.9	83.2	0.4	75.5	75.9	0.5	75 - 125	30	
Potassium	BRL	551	522	5.40	111	111	0.0	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.5	<1.3	NC	82.1	84.7	3.1	77.4	78.9	1.9	75 - 125	30	
Silver	BRL	<0.37	<0.33	NC	88.1	88.8	0.8	84.9	87.2	2.7	75 - 125	30	
Sodium	16.2	234	158	38.8	127	121	4.8	103	129	22.4	75 - 125	30	l,m,r
Thallium	BRL	<3.3	<2.9	NC	85.1	85.5	0.5	80.2	82.2	2.5	75 - 125	30	
Vanadium	BRL	10.6	15.0	34.4	93.0	95.2	2.3	86.8	90.1	3.7	75 - 125	30	r
Zinc	BRL	33.7	83.8	85.3	80.6	84.2	4.4	75.8	80.4	5.9	75 - 125	30	r

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 Report

October 03, 2013

QA/QC Data

SDG I.D.: GBF45185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 254141, QC Sample No: BF43764 (BF45187, BF45188, BF45189, BF45190, BF45191, BF45192, BF45193, BF45194)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	59	84	35.0	64	64	0.0	40 - 140	30	r
2,4,5-TP (Silvex)	ND	69	80	14.8	70	69	1.4	40 - 140	30	
2,4-D	ND	60	68	12.5	71	75	5.5	40 - 140	30	
2,4-DB	ND	60	56	6.9	58	56	3.5	40 - 140	30	
Dalapon	ND	56	62	10.2	43	41	4.8	40 - 140	30	
Dicamba	ND	72	81	11.8	67	67	0.0	40 - 140	30	
Dichloroprop	ND	60	67	11.0	60	58	3.4	40 - 140	30	
Dinoseb	ND	86	84	2.4	71	68	4.3	40 - 140	30	
% DCAA (Surrogate Rec)	65	53	60	12.4	53	52	1.9	30 - 150	30	
QA/QC Batch 254744, QC Sample No: BF45184 (BF45185, BF45186)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	69	61	12.3	74	70	5.6	40 - 140	30	
2,4,5-TP (Silvex)	ND	72	68	5.7	81	76	6.4	40 - 140	30	
2,4-D	ND	64	59	8.1	69	69	0.0	40 - 140	30	
2,4-DB	ND	53	54	1.9	63	62	1.6	40 - 140	30	
Dalapon	ND	59	56	5.2	55	54	1.8	40 - 140	30	
Dicamba	ND	75	69	8.3	83	78	6.2	40 - 140	30	
Dichloroprop	ND	65	54	18.5	69	65	6.0	40 - 140	30	
Dinoseb	ND	98	80	20.2	79	78	1.3	40 - 140	30	
% DCAA (Surrogate Rec)	58	56	53	5.5	62	59	5.0	30 - 150	30	
QA/QC Batch 255027, QC Sample No: BF45192 (BF45185, BF45186, BF45187, BF45188, BF45189 (111X) , BF45190, BF45191, BF45192, BF45193, BF45194, BF45195, BF45196 (50X))										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	108	104	3.8	100	101	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	108	106	1.9	111	112	0.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	89	95	6.5	83	86	3.6	70 - 130	30	
1,1,2-Trichloroethane	ND	103	105	1.9	90	91	1.1	70 - 130	30	
1,1-Dichloroethane	ND	111	95	15.5	111	99	11.4	70 - 130	30	
1,1-Dichloroethene	ND	111	107	3.7	109	108	0.9	70 - 130	30	
1,1-Dichloropropene	ND	110	106	3.7	104	107	2.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	104	105	1.0	80	81	1.2	70 - 130	30	
1,2,3-Trichloropropane	ND	95	104	9.0	87	92	5.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	105	105	0.0	78	79	1.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	108	108	0.0	94	98	4.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	106	116	9.0	86	86	0.0	70 - 130	30	
1,2-Dibromoethane	ND	105	105	0.0	90	91	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	100	102	2.0	85	89	4.6	70 - 130	30	
1,2-Dichloroethane	ND	102	102	0.0	98	100	2.0	70 - 130	30	
1,2-Dichloropropane	ND	104	104	0.0	92	94	2.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	107	107	0.0	97	101	4.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF45185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichlorobenzene	ND	101	100	1.0	84	86	2.4	70 - 130	30
1,3-Dichloropropane	ND	105	103	1.9	91	94	3.2	70 - 130	30
1,4-Dichlorobenzene	ND	100	102	2.0	82	86	4.8	70 - 130	30
2,2-Dichloropropane	ND	105	104	1.0	106	107	0.9	70 - 130	30
2-Chlorotoluene	ND	106	107	0.9	91	97	6.4	70 - 130	30
2-Hexanone	ND	120	122	1.7	90	92	2.2	70 - 130	30
2-Isopropyltoluene	ND	110	109	0.9	99	103	4.0	70 - 130	30
4-Chlorotoluene	ND	99	102	3.0	86	91	5.6	70 - 130	30
4-Methyl-2-pentanone	ND	115	123	6.7	97	99	2.0	70 - 130	30
Acetone	ND	86	89	3.4	78	79	1.3	70 - 130	30
Acrylonitrile	ND	96	87	9.8	92	78	16.5	70 - 130	30
Benzene	ND	103	101	2.0	92	95	3.2	70 - 130	30
Bromobenzene	ND	102	104	1.9	88	91	3.4	70 - 130	30
Bromochloromethane	ND	102	105	2.9	90	101	11.5	70 - 130	30
Bromodichloromethane	ND	104	104	0.0	100	102	2.0	70 - 130	30
Bromoform	ND	107	108	0.9	96	97	1.0	70 - 130	30
Bromomethane	ND	122	102	17.9	108	99	8.7	70 - 130	30
Carbon Disulfide	ND	111	107	3.7	108	108	0.0	70 - 130	30
Carbon tetrachloride	ND	110	107	2.8	113	114	0.9	70 - 130	30
Chlorobenzene	ND	104	101	2.9	91	92	1.1	70 - 130	30
Chloroethane	ND	124	110	12.0	114	112	1.8	70 - 130	30
Chloroform	ND	103	102	1.0	99	104	4.9	70 - 130	30
Chloromethane	ND	118	106	10.7	88	83	5.8	70 - 130	30
cis-1,2-Dichloroethene	ND	106	113	6.4	92	94	2.2	70 - 130	30
cis-1,3-Dichloropropene	ND	106	104	1.9	90	92	2.2	70 - 130	30
Dibromochloromethane	ND	106	105	0.9	97	100	3.0	70 - 130	30
Dibromomethane	ND	103	103	0.0	90	92	2.2	70 - 130	30
Dichlorodifluoromethane	ND	135	130	3.8	78	80	2.5	70 - 130	30
Ethylbenzene	ND	105	100	4.9	96	98	2.1	70 - 130	30
Hexachlorobutadiene	ND	107	103	3.8	101	98	3.0	70 - 130	30
Isopropylbenzene	ND	113	111	1.8	97	103	6.0	70 - 130	30
m&p-Xylene	ND	107	101	5.8	96	98	2.1	70 - 130	30
Methyl ethyl ketone	ND	96	102	6.1	85	87	2.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	96	99	3.1	98	99	1.0	70 - 130	30
Methylene chloride	ND	102	102	0.0	99	99	0.0	70 - 130	30
Naphthalene	ND	110	117	6.2	85	86	1.2	70 - 130	30
n-Butylbenzene	ND	106	104	1.9	93	96	3.2	70 - 130	30
n-Propylbenzene	ND	108	106	1.9	95	98	3.1	70 - 130	30
o-Xylene	ND	111	107	3.7	100	102	2.0	70 - 130	30
p-Isopropyltoluene	ND	110	108	1.8	98	102	4.0	70 - 130	30
sec-Butylbenzene	ND	105	105	0.0	99	101	2.0	70 - 130	30
Styrene	ND	106	103	2.9	95	96	1.0	70 - 130	30
tert-Butylbenzene	ND	113	113	0.0	101	106	4.8	70 - 130	30
Tetrachloroethene	ND	106	101	4.8	99	99	0.0	70 - 130	30
Tetrahydrofuran (THF)	ND	103	113	9.3	90	92	2.2	70 - 130	30
Toluene	ND	104	101	2.9	93	94	1.1	70 - 130	30
trans-1,2-Dichloroethene	ND	109	106	2.8	106	105	0.9	70 - 130	30
trans-1,3-Dichloropropene	ND	104	104	0.0	94	94	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	102	106	3.8	79	82	3.7	70 - 130	30
Trichloroethene	ND	114	109	4.5	97	98	1.0	70 - 130	30
Trichlorofluoromethane	ND	120	114	5.1	123	120	2.5	70 - 130	30
Trichlorotrifluoroethane	ND	113	107	5.5	110	106	3.7	70 - 130	30
Vinyl chloride	ND	129	123	4.8	98	101	3.0	70 - 130	30

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 1,2-dichlorobenzene-d4	102	98	100	2.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	96	102	99	3.0	103	99	4.0	70 - 130	30	
% Dibromofluoromethane	105	98	101	3.0	99	103	4.0	70 - 130	30	
% Toluene-d8	100	101	100	1.0	100	99	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 254698, QC Sample No: BF45197 (BF45185, BF45186, BF45187, BF45188, BF45189, BF45190, BF45191, BF45192, BF45193, BF45194)

Semivolatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	95	95	0.0	100	98	2.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	84	83	1.2	86	86	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	71	71	0.0	72	72	0.0	30 - 130	30	
1,2-Diphenylhydrazine	ND	76	76	0.0	77	78	1.3	30 - 130	30	
1,3-Dichlorobenzene	ND	70	70	0.0	71	72	1.4	30 - 130	30	
1,4-Dichlorobenzene	ND	72	72	0.0	74	74	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	93	91	2.2	98	98	0.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	92	91	1.1	98	99	1.0	30 - 130	30	
2,4-Dichlorophenol	ND	85	84	1.2	90	88	2.2	30 - 130	30	
2,4-Dimethylphenol	ND	50	50	0.0	56	55	1.8	30 - 130	30	
2,4-Dinitrophenol	ND	13	12	8.0	37	36	2.7	30 - 130	30	l
2,4-Dinitrotoluene	ND	83	82	1.2	86	86	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	82	82	0.0	85	85	0.0	30 - 130	30	
2-Chloronaphthalene	ND	78	77	1.3	80	82	2.5	30 - 130	30	
2-Chlorophenol	ND	67	67	0.0	70	71	1.4	30 - 130	30	
2-Methylnaphthalene	ND	75	74	1.3	76	76	0.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	68	68	0.0	72	73	1.4	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	78	78	0.0	82	82	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	69	69	0.0	73	72	1.4	30 - 130	30	
3,3'-Dichlorobenzidine	ND	133	129	3.1	127	123	3.2	30 - 130	30	l
3-Nitroaniline	ND	114	113	0.9	117	114	2.6	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	59	60	1.7	90	91	1.1	30 - 130	30	
4-Bromophenyl phenyl ether	ND	73	72	1.4	76	76	0.0	30 - 130	30	
4-Chloro-3-methylphenol	ND	76	76	0.0	80	79	1.3	30 - 130	30	
4-Chloroaniline	ND	79	81	2.5	78	78	0.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	97	97	0.0	100	101	1.0	30 - 130	30	
4-Nitroaniline	ND	81	80	1.2	83	84	1.2	30 - 130	30	
4-Nitrophenol	ND	76	76	0.0	84	82	2.4	30 - 130	30	
Acenaphthene	ND	76	75	1.3	78	80	2.5	30 - 130	30	
Acenaphthylene	ND	75	74	1.3	77	79	2.6	30 - 130	30	
Acetophenone	ND	77	77	0.0	79	79	0.0	30 - 130	30	
Aniline	ND	76	75	1.3	73	73	0.0	30 - 130	30	
Anthracene	ND	84	84	0.0	87	87	0.0	30 - 130	30	
Benz(a)anthracene	ND	88	86	2.3	89	90	1.1	30 - 130	30	
Benzidine	ND	56	61	8.5	53	59	10.7	30 - 130	30	
Benzo(a)pyrene	ND	80	78	2.5	82	82	0.0	30 - 130	30	
Benzo(b)fluoranthene	ND	86	86	0.0	96	93	3.2	30 - 130	30	
Benzo(ghi)perylene	ND	84	84	0.0	89	88	1.1	30 - 130	30	
Benzo(k)fluoranthene	ND	91	90	1.1	89	93	4.4	30 - 130	30	
Benzyl butyl phthalate	ND	72	70	2.8	73	75	2.7	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	71	72	1.4	74	74	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	66	67	1.5	68	68	0.0	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bis(2-chloroisopropyl)ether	ND	80	80	0.0	82	82	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	71	72	1.4	74	75	1.3	30 - 130	30	
Carbazole	ND	132	133	0.8	141	140	0.7	30 - 130	30	l,m
Chrysene	ND	86	84	2.4	88	88	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	89	88	1.1	94	92	2.2	30 - 130	30	
Dibenzofuran	ND	81	81	0.0	84	85	1.2	30 - 130	30	
Diethyl phthalate	ND	78	78	0.0	81	81	0.0	30 - 130	30	
Dimethylphthalate	ND	80	80	0.0	84	85	1.2	30 - 130	30	
Di-n-butylphthalate	ND	75	76	1.3	78	80	2.5	30 - 130	30	
Di-n-octylphthalate	ND	69	70	1.4	70	71	1.4	30 - 130	30	
Fluoranthene	ND	91	92	1.1	97	96	1.0	30 - 130	30	
Fluorene	ND	86	86	0.0	90	90	0.0	30 - 130	30	
Hexachlorobenzene	ND	77	75	2.6	78	79	1.3	30 - 130	30	
Hexachlorobutadiene	ND	94	92	2.2	96	94	2.1	30 - 130	30	
Hexachlorocyclopentadiene	ND	78	77	1.3	82	80	2.5	30 - 130	30	
Hexachloroethane	ND	68	69	1.5	71	70	1.4	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	88	87	1.1	92	91	1.1	30 - 130	30	
Isophorone	ND	78	78	0.0	80	80	0.0	30 - 130	30	
Naphthalene	ND	68	69	1.5	71	71	0.0	30 - 130	30	
Nitrobenzene	ND	75	76	1.3	78	78	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	62	62	0.0	63	63	0.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	79	81	2.5	82	82	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	94	94	0.0	99	98	1.0	30 - 130	30	
Pentachloronitrobenzene	ND	95	94	1.1	99	100	1.0	30 - 130	30	
Pentachlorophenol	ND	52	52	0.0	71	69	2.9	30 - 130	30	
Phenanthrene	ND	86	85	1.2	89	89	0.0	30 - 130	30	
Phenol	ND	72	72	0.0	75	75	0.0	30 - 130	30	
Pyrene	ND	91	91	0.0	96	96	0.0	30 - 130	30	
Pyridine	ND	55	55	0.0	52	52	0.0	30 - 130	30	
% 2,4,6-Tribromophenol	74	81	83	2.4	86	89	3.4	30 - 130	30	
% 2-Fluorobiphenyl	71	82	81	1.2	83	85	2.4	30 - 130	30	
% 2-Fluorophenol	59	63	63	0.0	66	66	0.0	30 - 130	30	
% Nitrobenzene-d5	69	74	74	0.0	77	77	0.0	30 - 130	30	
% Phenol-d5	68	72	72	0.0	75	76	1.3	30 - 130	30	
% Terphenyl-d14	82	101	101	0.0	106	107	0.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 254632, QC Sample No: BF45307 (BF45185, BF45186, BF45187, BF45188, BF45189, BF45190, BF45191, BF45192, BF45193, BF45194)

Pesticides - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4,4' -DDD	ND	90	95	5.4	106	103	2.9	40 - 140	30
4,4' -DDE	ND	97	99	2.0	99	93	6.3	40 - 140	30
4,4' -DDT	ND	97	100	3.0	103	101	2.0	40 - 140	30
a-BHC	ND	99	98	1.0	98	94	4.2	40 - 140	30
a-Chlordane	ND	99	96	3.1	92	89	3.3	40 - 140	30
Alachlor	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	103	97	6.0	94	90	4.3	40 - 140	30
b-BHC	ND	105	104	1.0	105	102	2.9	40 - 140	30
Chlordane	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
d-BHC	ND	101	98	3.0	96	91	5.3	40 - 140	30
Dieldrin	ND	106	102	3.8	101	98	3.0	40 - 140	30
Endosulfan I	ND	99	93	6.3	95	91	4.3	40 - 140	30

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endosulfan II	ND	100	96	4.1	102	97	5.0	40 - 140	30	
Endosulfan sulfate	ND	95	96	1.0	104	101	2.9	40 - 140	30	
Endrin	ND	93	98	5.2	99	92	7.3	40 - 140	30	
Endrin aldehyde	ND	110	110	0.0	114	116	1.7	40 - 140	30	
Endrin ketone	ND	100	97	3.0	104	103	1.0	40 - 140	30	
g-BHC	ND	100	99	1.0	100	97	3.0	40 - 140	30	
g-Chlordane	ND	98	93	5.2	92	88	4.4	40 - 140	30	
Heptachlor	ND	87	89	2.3	90	86	4.5	40 - 140	30	
Heptachlor epoxide	ND	96	91	5.3	91	88	3.4	40 - 140	30	
Methoxychlor	ND	78	75	3.9	115	115	0.0	40 - 140	30	
Toxaphene	ND	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	77	96	89	7.6	101	102	1.0	30 - 150	30	
% TCMX	84	106	102	3.8	98	95	3.1	30 - 150	30	

QA/QC Batch 254631, QC Sample No: BF45307 (BF45185, BF45186, BF45187, BF45188, BF45189, BF45190, BF45191, BF45192, BF45193, BF45194)

Polychlorinated Biphenyls - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1016	ND	97	101	4.0	101	96	5.1	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	106	110	3.7	110	108	1.8	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	113	123	119	3.3	122	118	3.3	30 - 150	30	
% TCMX (Surrogate Rec)	104	114	116	1.7	116	109	6.2	30 - 150	30	

QA/QC Batch 256017, QC Sample No: BF47420 (BF45188 (33X) , BF45190 (33X))

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	104	109	4.7	114	118	3.4	70 - 130	30	
1,2,3-Trichloropropane	ND	92	96	4.3	99	98	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	107	112	4.6	123	124	0.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	100	104	3.9	112	111	0.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	104	107	2.8	105	110	4.7	70 - 130	30	
1,2-Dichlorobenzene	ND	98	102	4.0	110	109	0.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	97	102	5.0	113	110	2.7	70 - 130	30	
1,3-Dichlorobenzene	ND	99	100	1.0	109	109	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	98	100	2.0	110	110	0.0	70 - 130	30	
2-Chlorotoluene	ND	103	108	4.7	117	116	0.9	70 - 130	30	
2-Isopropyltoluene	ND	98	102	4.0	117	116	0.9	70 - 130	30	
4-Chlorotoluene	ND	100	103	3.0	115	113	1.8	70 - 130	30	
Bromobenzene	ND	99	101	2.0	108	108	0.0	70 - 130	30	
Hexachlorobutadiene	ND	86	89	3.4	116	117	0.9	70 - 130	30	
Isopropylbenzene	ND	109	112	2.7	125	121	3.3	70 - 130	30	
Naphthalene	ND	118	124	5.0	127	135	6.1	70 - 130	30	m
n-Butylbenzene	ND	98	103	5.0	119	118	0.8	70 - 130	30	
n-Propylbenzene	ND	102	106	3.8	118	118	0.0	70 - 130	30	
p-Isopropyltoluene	ND	99	104	4.9	119	118	0.8	70 - 130	30	
sec-Butylbenzene	ND	95	101	6.1	117	116	0.9	70 - 130	30	
tert-Butylbenzene	ND	102	106	3.8	119	118	0.8	70 - 130	30	
Tetrachloroethene	ND	100	95	5.1	111	109	1.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	102	108	5.7	100	102	2.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF45185

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	103	100	101	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	91	97	94	3.1	95	91	4.3	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

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
October 03, 2013

Requested Criteria: 375, 375RS

State: NY

Sample Criteria Exceedences Report

GBF45185 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45185	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BF45185	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BF45185	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1900	800	800	ug/Kg
BF45185	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	39000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	39000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	35000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	35000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	42000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	42000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	21000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	21000	1300	800	800	ug/Kg
BF45185	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	33000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	33000	1300	1000	1000	ug/Kg
BF45185	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	17000	1300	500	500	ug/Kg
BF45185	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	17000	1300	500	500	ug/Kg
BF45185	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	5500	1300	330	330	ug/Kg
BF45185	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	5500	1300	330	330	ug/Kg
BF45185	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	12	3.3	3.3	ug/Kg
BF45185	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	17.0	0.8	16	16	mg/Kg
BF45185	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	17.0	0.8	13	13	mg/Kg
BF45185	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	3.19	0.41	2.5	2.5	mg/Kg
BF45185	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	3.19	0.41	2.5	2.5	mg/Kg
BF45185	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	73.5	0.41	1	1	mg/Kg
BF45185	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	147	0.41	50	50	mg/kg
BF45185	PB-SM	Lead	NY / 375-6.8 Metals / Residential	477	4.1	400	400	mg/Kg
BF45185	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	477	4.1	63	63	mg/Kg
BF45185	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	391	4.1	109	109	mg/Kg
BF45186	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	30.6	0.41	1	1	mg/Kg
BF45187	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	12.7	0.40	1	1	mg/Kg
BF45188	$8260MAR	Tetrachloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	2400	330	1300	1300	ug/Kg
BF45188	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2300	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2300	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2400	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2400	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4600	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4600	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1700	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	280	800	800	ug/Kg
BF45188	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2800	280	1000	1000	ug/Kg
BF45188	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2800	280	1000	1000	ug/Kg

Requested Criteria: 375, 375RS

State: NY

Sample Criteria Exceedences Report

GBF45185 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45188	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1500	280	500	500	ug/Kg
BF45188	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	280	500	500	ug/Kg
BF45188	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	520	280	330	330	ug/Kg
BF45188	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	520	280	330	330	ug/Kg
BF45188	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	9.6	2.4	3.3	3.3	ug/Kg
BF45188	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	17.6	0.8	16	16	mg/Kg
BF45188	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	17.6	0.8	13	13	mg/Kg
BF45188	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	18.1	0.38	1	1	mg/Kg
BF45188	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	66.4	0.38	50	50	mg/kg
BF45188	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	95.5	0.38	63	63	mg/Kg
BF45188	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	139	0.38	109	109	mg/Kg
BF45189	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	560	210	210	ug/Kg
BF45189	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	20	20	ug/Kg
BF45189	$8260MAR	1,1-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	330	330	ug/Kg
BF45189	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3400	50	50	ug/Kg
BF45189	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	50	50	ug/Kg
BF45189	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	190	190	ug/Kg
BF45189	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	270	270	ug/Kg
BF45189	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	250	250	ug/Kg
BF45189	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3400	120	120	ug/Kg
BF45189	$8260MAR	Chloroform	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	370	370	ug/Kg
BF45189	$8260MAR	Methyl t-butyl ether (MTBE)	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1100	930	930	ug/Kg
BF45189	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	60	60	ug/Kg
BF45189	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	20	20	ug/Kg
BF45189	$8260MAR	Trichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	470	470	ug/Kg
BF45189	$8260MAR	Ethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	4500	560	1000	1000	ug/Kg
BF45189	$8260MAR	1,2,4-Trimethylbenzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	5200	560	3600	3600	ug/Kg
BF45189	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	560	260	260	ug/Kg
BF45189	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	35.0	0.40	1	1	mg/Kg
BF45190	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	560	330	330	ug/Kg
BF45190	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	560	330	330	ug/Kg
BF45190	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1100	560	1000	1000	ug/Kg
BF45190	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1100	560	1000	1000	ug/Kg
BF45190	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	ND	560	500	500	ug/Kg
BF45190	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	560	500	500	ug/Kg
BF45190	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	560	330	330	ug/Kg
BF45190	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	560	330	330	ug/Kg
BF45190	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	18.4	0.42	1	1	mg/Kg
BF45190	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	68.4	4.2	50	50	mg/kg
BF45190	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	116	0.42	63	63	mg/Kg

Sample Criteria Exceedences Report

GBF45185 - GALLI-ENG

Requested Criteria: 375, 375RS
State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45191	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	120	50	50	ug/Kg
BF45191	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BF45191	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BF45191	$8270-SMR	Pentachlorophenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1900	800	800	ug/Kg
BF45191	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	2700	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2600	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	4800	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4800	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1600	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	1300	800	800	ug/Kg
BF45191	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2500	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	1300	1000	1000	ug/Kg
BF45191	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	500	500	ug/Kg
BF45191	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	500	500	ug/Kg
BF45191	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	1300	330	330	ug/Kg
BF45191	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	1300	330	330	ug/Kg
BF45191	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	9.0	5	5	ug/Kg
BF45191	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	7.2	3.3	3.3	ug/Kg
BF45191	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	7.5	3.3	3.3	ug/Kg
BF45191	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	40.1	0.8	16	16	mg/Kg
BF45191	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	40.1	0.8	13	13	mg/Kg
BF45191	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	17.5	0.39	1	1	mg/Kg
BF45191	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	161	3.9	50	50	mg/kg
BF45191	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	229	3.9	63	63	mg/Kg
BF45191	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	222	3.9	109	109	mg/Kg
BF45192	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	34.7	0.36	1	1	mg/Kg
BF45193	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	38.9	0.34	1	1	mg/Kg
BF45193	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	90.9	0.34	50	50	mg/kg
BF45193	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	35.8	0.34	30	30	mg/Kg
BF45194	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	41.4	0.38	1	1	mg/Kg
BF45196	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BF45196	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BF45196	$8260MER	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	5000	50	50	ug/Kg
BF45196	$8260MER	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	500	50	50	ug/Kg
BF45196	$8260MER	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg
BF45196	$8260MER	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3000	120	120	ug/Kg
BF45196	$8260MER	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg

Sample Criteria Exceedences Report

GBF45185 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45196	$8260MER	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg

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

NY # 11301

NY Temperature Narration

October 03, 2013

SDG I.D.: GBF45185

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

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

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

Temp 4 Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: MGREMILLION@GALLIENG.COM

Customer: GALLI ENG.
Address: MELVILLE, NY.

Project: LARCHMONT
Report to: M GREMILLION
Invoice to: L. LA SANTA

Project P.O.:
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 9/24/13

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

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC'S 8260	SVOCS 8270	TAL METALS	PCB'S	PEST	HERB	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
45185	B-1 (2-4')	S	9/24	10:00	X	X	X	X	X	X	3	1								4
45186	B-2 (6-8')			10:15																
45187	B-3 (2-4')			10:30																
45188	B-4 (1-3')			11:00																
45189	B-5 (5-7')			11:15																
45190	B-6 (1-3')			11:30																
45191	B-7 (1-3')			11:45																
45192	B-8 (3-5')			12:00																
45193	B-9 (3-5')			12:30																
45194	B-10 (3-5')			12:45																
45195	Trip Low	W	8/18	—							2									2
45196	Trip High	W	8/18	—							1									1

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	9/25/13	11:10
[signature]	[signature]	9-25/13	1526

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ 5 Days
☐ 10 Days
☐ Other

* SURCHARGE APPLIES

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

NY
☐ TOGS GA GW
☐ CP-51 Soil
☒ NY375 Unrestricted Soil
☒ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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

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

State where samples were collected: NY

Tuesday, October 08, 2013

Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: LARCHMONT
Sample ID#s: BF45890 - BF45895

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

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

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

NY # 11301

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	10:30
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45890

Project ID: LARCHMONT
Client ID: SC-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	09/27/13	EK	SW6010
Aluminum	5940	52	mg/Kg	09/27/13	EK	SW6010
Arsenic	2.7	0.7	mg/Kg	09/27/13	EK	SW6010
Barium	92.2	0.34	mg/Kg	09/27/13	EK	SW6010
Beryllium	< 0.28	0.28	mg/Kg	09/27/13	EK	SW6010
Calcium	32300	52	mg/Kg	09/30/13	EK	SW6010
Cadmium	1.11	0.34	mg/Kg	09/27/13	EK	SW6010
Cobalt	9.10	0.34	mg/Kg	09/27/13	EK	SW6010
Chromium	17.6	0.34	mg/Kg	09/27/13	EK	SW6010
Copper	112	3.4	mg/kg	09/27/13	EK	SW6010
Iron	17000	52	mg/Kg	09/27/13	EK	SW6010
Mercury	< 0.06	0.06	mg/Kg	09/27/13	RS	SW-7471
Potassium	950	5.2	mg/Kg	09/27/13	EK	SW6010
Magnesium	8940	52	mg/Kg	09/27/13	EK	SW6010
Manganese	186	3.4	mg/Kg	09/27/13	EK	SW6010
Sodium	399	5.2	mg/Kg	09/27/13	EK	SW6010
Nickel	19.3	0.34	mg/Kg	09/27/13	EK	SW6010
Lead	68.2	0.34	mg/Kg	09/27/13	EK	SW6010
Antimony	< 3.4	3.4	mg/Kg	09/27/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	09/27/13	EK	SW6010
Thallium	< 3.1	3.1	mg/Kg	09/27/13	EK	SW6010
Vanadium	37.1	0.34	mg/Kg	09/27/13	EK	SW6010
Zinc	227	3.4	mg/Kg	09/27/13	EK	SW6010
Percent Solid	98		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Project ID: LARCHMONT

Client ID: SC-1

Phoenix I.D.: BF45890

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	42	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	42	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	42	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	420	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	42	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	84	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	42	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	84	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	64		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	66	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	66	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	75		%	09/27/13	AW	30 - 150 %
% TCMX	74		%	09/27/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4,4' -DDD	ND	2.0	ug/Kg	09/27/13	MH	SW8081	
4,4' -DDE	4.9	2.0	ug/Kg	09/27/13	MH	SW8081	
4,4' -DDT	ND	3.0	ug/Kg	09/27/13	MH	SW8081	
a-BHC	ND	3.2	ug/Kg	09/27/13	MH	SW8081	
Alachlor	ND	3.2	ug/Kg	09/27/13	MH	SW8081	1
Aldrin	ND	0.99	ug/Kg	09/27/13	MH	SW8081	
b-BHC	ND	3.2	ug/Kg	09/27/13	MH	SW8081	
Chlordane	ND	9.9	ug/Kg	09/27/13	MH	SW8081	
d-BHC	ND	3.2	ug/Kg	09/27/13	MH	SW8081	
Dieldrin	ND*	5.8	ug/Kg	09/27/13	MH	SW8081	
Endosulfan I	ND	3.2	ug/Kg	09/27/13	MH	SW8081	
Endosulfan II	ND	6.3	ug/Kg	09/27/13	MH	SW8081	
Endosulfan sulfate	ND	6.3	ug/Kg	09/27/13	MH	SW8081	
Endrin	ND	6.3	ug/Kg	09/27/13	MH	SW8081	
Endrin aldehyde	ND	6.3	ug/Kg	09/27/13	MH	SW8081	
Endrin ketone	ND	6.3	ug/Kg	09/27/13	MH	SW8081	
g-BHC	ND	0.99	ug/Kg	09/27/13	MH	SW8081	
Heptachlor	13	2.0	ug/Kg	09/27/13	MH	SW8081	
Heptachlor epoxide	ND	3.2	ug/Kg	09/27/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Methoxychlor	ND	32	ug/Kg	09/27/13	MH	SW8081
Toxaphene	ND	32	ug/Kg	09/27/13	MH	SW8081
QA/QC Surrogates						
% DCBP	92		%	09/27/13	MH	30 - 150 %
% TCMX	85		%	09/27/13	MH	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,1,1-Trichloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	170	ug/Kg	09/27/13	RM	SW8260
1,1,2-Trichloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,1-Dichloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,1-Dichloroethene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,1-Dichloropropene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2,3-Trichloropropane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2,4-Trimethylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2-Dibromoethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2-Dichlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2-Dichloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,2-Dichloropropane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,3,5-Trimethylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
1,3-Dichloropropane	ND	280	ug/Kg	09/27/13	RM	SW8260
1,4-Dichlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
2,2-Dichloropropane	ND	280	ug/Kg	09/27/13	RM	SW8260
2-Chlorotoluene	ND	280	ug/Kg	09/27/13	RM	SW8260
2-Hexanone	ND	1400	ug/Kg	09/27/13	RM	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	09/27/13	RM	SW8260 [1]
4-Chlorotoluene	ND	280	ug/Kg	09/27/13	RM	SW8260
4-Methyl-2-pentanone	ND	1400	ug/Kg	09/27/13	RM	SW8260
Acetone	ND	1700	ug/Kg	09/27/13	RM	SW8260
Acrylonitrile	ND	280	ug/Kg	09/27/13	RM	SW8260
Benzene	ND	280	ug/Kg	09/27/13	RM	SW8260
Bromobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
Bromochloromethane	ND	280	ug/Kg	09/27/13	RM	SW8260
Bromodichloromethane	ND	280	ug/Kg	09/27/13	RM	SW8260
Bromoform	ND	280	ug/Kg	09/27/13	RM	SW8260
Bromomethane	ND	280	ug/Kg	09/27/13	RM	SW8260
Carbon Disulfide	ND	280	ug/Kg	09/27/13	RM	SW8260
Carbon tetrachloride	ND	280	ug/Kg	09/27/13	RM	SW8260
Chlorobenzene	ND	280	ug/Kg	09/27/13	RM	SW8260
Chloroethane	ND	280	ug/Kg	09/27/13	RM	SW8260
Chloroform	ND	280	ug/Kg	09/27/13	RM	SW8260
Chloromethane	ND	280	ug/Kg	09/27/13	RM	SW8260
cis-1,2-Dichloroethene	ND	280	ug/Kg	09/27/13	RM	SW8260
cis-1,3-Dichloropropene	ND	280	ug/Kg	09/27/13	RM	SW8260
Dibromochloromethane	ND	170	ug/Kg	09/27/13	RM	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	280	ug/Kg	09/27/13	RM	SW8260	
Dichlorodifluoromethane	ND	280	ug/Kg	09/27/13	RM	SW8260	
Ethylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Hexachlorobutadiene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Isopropylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
m&p-Xylene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Methyl Ethyl Ketone	ND	1700	ug/Kg	09/27/13	RM	SW8260	
Methyl t-butyl ether (MTBE)	ND	550	ug/Kg	09/27/13	RM	SW8260	
Methylene chloride	ND	280	ug/Kg	09/27/13	RM	SW8260	
Naphthalene	ND	280	ug/Kg	09/27/13	RM	SW8260	
n-Butylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
n-Propylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
o-Xylene	ND	280	ug/Kg	09/27/13	RM	SW8260	
p-Isopropyltoluene	ND	280	ug/Kg	09/27/13	RM	SW8260	
sec-Butylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Styrene	ND	280	ug/Kg	09/27/13	RM	SW8260	
tert-Butylbenzene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Tetrachloroethene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Tetrahydrofuran (THF)	ND	550	ug/Kg	09/27/13	RM	SW8260	1
Toluene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Total Xylenes	ND	280	ug/Kg	09/27/13	RM	SW8260	
trans-1,2-Dichloroethene	ND	280	ug/Kg	09/27/13	RM	SW8260	
trans-1,3-Dichloropropene	ND	280	ug/Kg	09/27/13	RM	SW8260	
trans-1,4-dichloro-2-butene	ND	550	ug/Kg	09/27/13	RM	SW8260	
Trichloroethene	ND	280	ug/Kg	09/27/13	RM	SW8260	
Trichlorofluoromethane	ND	280	ug/Kg	09/27/13	RM	SW8260	
Trichlorotrifluoroethane	ND	280	ug/Kg	09/27/13	RM	SW8260	
Vinyl chloride	ND	280	ug/Kg	09/27/13	RM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	09/27/13	RM	70 - 130 %	
% Bromofluorobenzene	94		%	09/27/13	RM	70 - 130 %	
% Dibromofluoromethane	98		%	09/27/13	RM	70 - 130 %	
% Toluene-d8	99		%	09/27/13	RM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270
1,2-Dichlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	680	ug/Kg	09/27/13	DD	SW 8270
1,3-Dichlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270
1,4-Dichlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,4-Dichlorophenol	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,4-Dimethylphenol	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrophenol	ND	1100	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrotoluene	ND	470	ug/Kg	09/27/13	DD	SW 8270
2,6-Dinitrotoluene	ND	470	ug/Kg	09/27/13	DD	SW 8270
2-Chloronaphthalene	ND	470	ug/Kg	09/27/13	DD	SW 8270
2-Chlorophenol	ND	470	ug/Kg	09/27/13	DD	SW 8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	470	ug/Kg	09/27/13	DD	SW 8270	
2-Nitroaniline	ND	1100	ug/Kg	09/27/13	DD	SW 8270	
2-Nitrophenol	ND	470	ug/Kg	09/27/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	680	ug/Kg	09/27/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	470	ug/Kg	09/27/13	DD	SW 8270	
3-Nitroaniline	ND	1100	ug/Kg	09/27/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	2000	ug/Kg	09/27/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	680	ug/Kg	09/27/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	470	ug/Kg	09/27/13	DD	SW 8270	
4-Chloroaniline	ND	470	ug/Kg	09/27/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	470	ug/Kg	09/27/13	DD	SW 8270	
4-Nitroaniline	ND	1100	ug/Kg	09/27/13	DD	SW 8270	
4-Nitrophenol	ND	2000	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthylene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Acetophenone	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Aniline	ND	2000	ug/Kg	09/27/13	DD	SW 8270	
Anthracene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Benz(a)anthracene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Benzidine	ND	810	ug/Kg	09/27/13	DD	SW 8270	
Benzo(a)pyrene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Benzo(b)fluoranthene	700	470	ug/Kg	09/27/13	DD	SW 8270	
Benzo(ghi)perylene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Benzoic acid	ND	2000	ug/Kg	09/27/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	680	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	470	ug/Kg	09/27/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Carbazole	ND	1000	ug/Kg	09/27/13	DD	SW 8270	
Chrysene	540	470	ug/Kg	09/27/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Dibenzofuran	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Diethyl phthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Dimethylphthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Di-n-butylphthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Di-n-octylphthalate	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Fluoranthene	530	470	ug/Kg	09/27/13	DD	SW 8270	
Fluorene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobutadiene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Hexachloroethane	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Isophorone	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Naphthalene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
Nitrobenzene	ND	470	ug/Kg	09/27/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	680	ug/Kg	09/27/13	DD	SW 8270	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	470	ug/Kg	09/27/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	680	ug/Kg	09/27/13	DD	SW 8270
Pentachloronitrobenzene	ND	680	ug/Kg	09/27/13	DD	SW 8270
Pentachlorophenol	ND	680	ug/Kg	09/27/13	DD	SW 8270
Phenanthrene	ND	470	ug/Kg	09/27/13	DD	SW 8270
Phenol	ND	470	ug/Kg	09/27/13	DD	SW 8270
Pyrene	ND	470	ug/Kg	09/27/13	DD	SW 8270
Pyridine	ND	680	ug/Kg	09/27/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	97		%	09/27/13	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	83		%	09/27/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	09/27/13	DD	30 - 130 %
% Phenol-d5	84		%	09/27/13	DD	30 - 130 %
% Terphenyl-d14	66		%	09/27/13	DD	30 - 130 %

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

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

Comments:

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

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

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	11:00
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45891

Project ID: LARCHMONT
Client ID: SC-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	09/27/13	EK	SW6010
Aluminum	7010	54	mg/Kg	09/27/13	EK	SW6010
Arsenic	3.8	0.7	mg/Kg	09/27/13	EK	SW6010
Barium	169	0.36	mg/Kg	09/27/13	EK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	09/27/13	EK	SW6010
Calcium	26000	54	mg/Kg	09/30/13	EK	SW6010
Cadmium	1.55	0.36	mg/Kg	09/27/13	EK	SW6010
Cobalt	9.21	0.36	mg/Kg	09/27/13	EK	SW6010
Chromium	41.2	0.36	mg/Kg	09/27/13	EK	SW6010
Copper	393	3.6	mg/kg	09/27/13	EK	SW6010
Iron	17700	54	mg/Kg	09/27/13	EK	SW6010
Mercury	< 0.06	0.06	mg/Kg	09/27/13	RS	SW-7471
Potassium	1170	54	mg/Kg	09/27/13	EK	SW6010
Magnesium	10800	54	mg/Kg	09/27/13	EK	SW6010
Manganese	228	3.6	mg/Kg	09/27/13	EK	SW6010
Sodium	472	5.4	mg/Kg	09/27/13	EK	SW6010
Nickel	28.1	0.36	mg/Kg	09/27/13	EK	SW6010
Lead	186	3.6	mg/Kg	09/27/13	EK	SW6010
Antimony	< 3.6	3.6	mg/Kg	09/27/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	09/27/13	EK	SW6010
Thallium	< 3.2	3.2	mg/Kg	09/27/13	EK	SW6010
Vanadium	40.3	0.36	mg/Kg	09/27/13	EK	SW6010
Zinc	872	3.6	mg/Kg	09/27/13	EK	SW6010
Percent Solid	89		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Project ID: LARCHMONT | Phoenix I.D.: BF45891
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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	46	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	460	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	46	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	93	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	46	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	93	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	59		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	75	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	75	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	72		%	09/27/13	AW	30 - 150 %
% TCMX	75		%	09/27/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4,4' -DDD	ND*	36	ug/Kg	09/27/13	MH	SW8081
4,4' -DDE	ND*	36	ug/Kg	09/27/13	MH	SW8081
4,4' -DDT	ND*	36	ug/Kg	09/27/13	MH	SW8081
a-BHC	ND*	18	ug/Kg	09/27/13	MH	SW8081
Alachlor	ND*	18	ug/Kg	09/27/13	MH	SW8081 1
Aldrin	ND*	5.6	ug/Kg	09/27/13	MH	SW8081
b-BHC	ND*	18	ug/Kg	09/27/13	MH	SW8081
Chlordane	82	56	ug/Kg	09/27/13	MH	SW8081
d-BHC	ND*	18	ug/Kg	09/27/13	MH	SW8081
Dieldrin	82	5.6	ug/Kg	09/27/13	MH	SW8081
Endosulfan I	ND*	18	ug/Kg	09/27/13	MH	SW8081
Endosulfan II	ND*	36	ug/Kg	09/27/13	MH	SW8081
Endosulfan sulfate	ND*	36	ug/Kg	09/27/13	MH	SW8081
Endrin	ND*	36	ug/Kg	09/27/13	MH	SW8081
Endrin aldehyde	ND*	36	ug/Kg	09/27/13	MH	SW8081
Endrin ketone	ND*	36	ug/Kg	09/27/13	MH	SW8081
g-BHC	ND*	5.6	ug/Kg	09/27/13	MH	SW8081
Heptachlor	160	11	ug/Kg	09/27/13	MH	SW8081
Heptachlor epoxide	ND*	18	ug/Kg	09/27/13	MH	SW8081

Project ID: LARCHMONT

Client ID: SC-2

Phoenix I.D.: BF45891

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Methoxychlor	ND*	180	ug/Kg	09/27/13	MH	SW8081
Toxaphene	ND*	180	ug/Kg	09/27/13	MH	SW8081
QA/QC Surrogates						
% DCBP	87		%	09/27/13	MH	30 - 150 %
% TCMX	84		%	09/27/13	MH	30 - 150 %

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,1,1,2-Tetrachloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,1,1-Trichloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	09/27/13	HM	SW8260
1,1,2-Trichloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,1-Dichloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,1-Dichloroethene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,1-Dichloropropene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2,3-Trichloropropane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2-Dibromoethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2-Dichlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2-Dichloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,2-Dichloropropane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,3-Dichlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,3-Dichloropropane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
1,4-Dichlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
2,2-Dichloropropane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
2-Chlorotoluene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
2-Hexanone	ND	33	ug/Kg	09/27/13	HM	SW8260
2-Isopropyltoluene	ND	6.7	ug/Kg	09/27/13	HM	SW8260 [1]
4-Chlorotoluene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	09/27/13	HM	SW8260
Acetone	ND	40	ug/Kg	09/27/13	HM	SW8260
Acrylonitrile	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Benzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Bromobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Bromochloromethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Bromodichloromethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Bromoform	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Bromomethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Carbon Disulfide	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Carbon tetrachloride	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Chlorobenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Chloroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Chloroform	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Chloromethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260
cis-1,2-Dichloroethene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
cis-1,3-Dichloropropene	ND	6.7	ug/Kg	09/27/13	HM	SW8260
Dibromochloromethane	ND	4.0	ug/Kg	09/27/13	HM	SW8260

Project ID: LARCHMONT
Client ID: SC-2

Phoenix I.D.: BF45891

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Ethylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Isopropylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
m&p-Xylene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Methyl Ethyl Ketone	ND	40	ug/Kg	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	09/27/13	HM	SW8260	
Methylene chloride	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Naphthalene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
n-Butylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
n-Propylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
o-Xylene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Styrene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Tetrachloroethene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	13	ug/Kg	09/27/13	HM	SW8260	1
Toluene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Total Xylenes	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	09/27/13	HM	SW8260	
Trichloroethene	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
Vinyl chloride	ND	6.7	ug/Kg	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	94		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	100		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	98		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	09/29/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	09/29/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	09/29/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	09/29/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	09/29/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	09/29/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	260	ug/Kg	09/29/13	DD	SW 8270	
2-Nitroaniline	ND	590	ug/Kg	09/29/13	DD	SW 8270	
2-Nitrophenol	ND	260	ug/Kg	09/29/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	09/29/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	260	ug/Kg	09/29/13	DD	SW 8270	
3-Nitroaniline	ND	590	ug/Kg	09/29/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	09/29/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	370	ug/Kg	09/29/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	260	ug/Kg	09/29/13	DD	SW 8270	
4-Chloroaniline	ND	260	ug/Kg	09/29/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	09/29/13	DD	SW 8270	
4-Nitroaniline	ND	590	ug/Kg	09/29/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	09/29/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	09/29/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Benz(a)anthracene	390	260	ug/Kg	09/29/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	09/29/13	DD	SW 8270	
Benzo(a)pyrene	400	260	ug/Kg	09/29/13	DD	SW 8270	
Benzo(b)fluoranthene	860	260	ug/Kg	09/29/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Benzo(k)fluoranthene	310	260	ug/Kg	09/29/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	09/29/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	09/29/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Carbazole	ND	550	ug/Kg	09/29/13	DD	SW 8270	
Chrysene	480	260	ug/Kg	09/29/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Fluoranthene	670	260	ug/Kg	09/29/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	09/29/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	09/29/13	DD	SW 8270	

Project ID: LARCHMONT
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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	09/29/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	370	ug/Kg	09/29/13	DD	SW 8270
Pentachloronitrobenzene	ND	370	ug/Kg	09/29/13	DD	SW 8270
Pentachlorophenol	ND	370	ug/Kg	09/29/13	DD	SW 8270
Phenanthrene	270	260	ug/Kg	09/29/13	DD	SW 8270
Phenol	ND	260	ug/Kg	09/29/13	DD	SW 8270
Pyrene	570	260	ug/Kg	09/29/13	DD	SW 8270
Pyridine	ND	370	ug/Kg	09/29/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	118		%	09/29/13	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	09/29/13	DD	30 - 130 %
% 2-Fluorophenol	84		%	09/29/13	DD	30 - 130 %
% Nitrobenzene-d5	75		%	09/29/13	DD	30 - 130 %
% Phenol-d5	81		%	09/29/13	DD	30 - 130 %
% Terphenyl-d14	78		%	09/29/13	DD	30 - 130 %

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

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

Comments:

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

* 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
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

NY # 11301

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	10:45
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45892

Project ID: LARCHMONT
Client ID: SC-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	09/27/13	EK	SW6010
Aluminum	8310	57	mg/Kg	09/27/13	EK	SW6010
Arsenic	5.9	0.8	mg/Kg	09/27/13	EK	SW6010
Barium	286	0.38	mg/Kg	09/27/13	EK	SW6010
Beryllium	0.36	0.30	mg/Kg	09/27/13	EK	SW6010
Calcium	17500	57	mg/Kg	09/30/13	EK	SW6010
Cadmium	2.31	0.38	mg/Kg	09/27/13	EK	SW6010
Cobalt	11.4	0.38	mg/Kg	09/27/13	EK	SW6010
Chromium	46.0	0.38	mg/Kg	09/27/13	EK	SW6010
Copper	261	3.8	mg/kg	09/27/13	EK	SW6010
Iron	23000	57	mg/Kg	09/27/13	EK	SW6010
Mercury	< 0.10	0.10	mg/Kg	09/27/13	RS	SW-7471
Potassium	1390	57	mg/Kg	09/27/13	EK	SW6010
Magnesium	7700	57	mg/Kg	09/27/13	EK	SW6010
Manganese	373	3.8	mg/Kg	09/27/13	EK	SW6010
Sodium	1090	5.7	mg/Kg	09/27/13	EK	SW6010
Nickel	25.9	0.38	mg/Kg	09/27/13	EK	SW6010
Lead	669	3.8	mg/Kg	09/27/13	EK	SW6010
Antimony	< 3.8	3.8	mg/Kg	09/27/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	09/27/13	EK	SW6010
Thallium	< 3.4	3.4	mg/Kg	09/27/13	EK	SW6010
Vanadium	39.8	0.38	mg/Kg	09/27/13	EK	SW6010
Zinc	6060	38	mg/Kg	09/30/13	EK	SW6010
Percent Solid	82		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: SC-3

Phoenix I.D.: BF45892

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	51	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	51	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	51	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	510	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	51	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	100	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	51	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	100	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	59		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	80	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	79	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	79	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	71		%	09/27/13	AW	30 - 150 %
% TCMX	74		%	09/27/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4,4' -DDD	ND*	76	ug/Kg	09/27/13	MH	SW8081	
4,4' -DDE	ND*	76	ug/Kg	09/27/13	MH	SW8081	
4,4' -DDT	ND*	76	ug/Kg	09/27/13	MH	SW8081	
a-BHC	ND*	38	ug/Kg	09/27/13	MH	SW8081	
Alachlor	ND*	38	ug/Kg	09/27/13	MH	SW8081	1
Aldrin	ND*	12	ug/Kg	09/27/13	MH	SW8081	
b-BHC	ND*	38	ug/Kg	09/27/13	MH	SW8081	
Chlordane	ND*	120	ug/Kg	09/27/13	MH	SW8081	
d-BHC	ND*	38	ug/Kg	09/27/13	MH	SW8081	
Dieldrin	19	12	ug/Kg	09/27/13	MH	SW8081	
Endosulfan I	ND*	38	ug/Kg	09/27/13	MH	SW8081	
Endosulfan II	ND*	76	ug/Kg	09/27/13	MH	SW8081	
Endosulfan sulfate	ND*	76	ug/Kg	09/27/13	MH	SW8081	
Endrin	ND*	76	ug/Kg	09/27/13	MH	SW8081	
Endrin aldehyde	ND*	76	ug/Kg	09/27/13	MH	SW8081	
Endrin ketone	ND*	76	ug/Kg	09/27/13	MH	SW8081	
g-BHC	ND*	12	ug/Kg	09/27/13	MH	SW8081	
Heptachlor	320	24	ug/Kg	09/27/13	MH	SW8081	
Heptachlor epoxide	ND*	38	ug/Kg	09/27/13	MH	SW8081	

Project ID: LARCHMONT
Client ID: SC-3

Phoenix I.D.: BF45892

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND*	380	ug/Kg	09/27/13	MH	SW8081	
Toxaphene	ND*	380	ug/Kg	09/27/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	Diluted Out		%	09/27/13	MH	30 - 150 %	
% TCMX	Diluted Out		%	09/27/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
2-Hexanone	ND	49	ug/Kg	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	49	ug/Kg	09/27/13	HM	SW8260	
Acetone	ND	59	ug/Kg	09/27/13	HM	SW8260	
Acrylonitrile	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Benzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Bromobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Bromochloromethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Bromodichloromethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Bromoform	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Bromomethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Carbon Disulfide	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Chlorobenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Chloroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Chloroform	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Chloromethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Dibromochloromethane	ND	5.9	ug/Kg	09/27/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Ethylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Isopropylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
m&p-Xylene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Methyl Ethyl Ketone	ND	59	ug/Kg	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	09/27/13	HM	SW8260	
Methylene chloride	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Naphthalene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
n-Butylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
n-Propylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
o-Xylene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Styrene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Tetrachloroethene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	20	ug/Kg	09/27/13	HM	SW8260	1
Toluene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Total Xylenes	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Trichloroethene	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
Vinyl chloride	ND	9.8	ug/Kg	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	93		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	98		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	96		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	400	ug/Kg	09/29/13	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,4-Dinitrophenol	ND	640	ug/Kg	09/29/13	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	09/29/13	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	09/29/13	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	09/29/13	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	09/29/13	DD	SW 8270

Project ID: LARCHMONT
Client ID: SC-3

Phoenix I.D.: BF45892

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	280	ug/Kg	09/29/13	DD	SW 8270	
2-Nitroaniline	ND	640	ug/Kg	09/29/13	DD	SW 8270	
2-Nitrophenol	ND	280	ug/Kg	09/29/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	09/29/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	280	ug/Kg	09/29/13	DD	SW 8270	
3-Nitroaniline	ND	640	ug/Kg	09/29/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	09/29/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	400	ug/Kg	09/29/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	280	ug/Kg	09/29/13	DD	SW 8270	
4-Chloroaniline	ND	280	ug/Kg	09/29/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	09/29/13	DD	SW 8270	
4-Nitroaniline	ND	640	ug/Kg	09/29/13	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	09/29/13	DD	SW 8270	
Acenaphthene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Acenaphthylene	300	280	ug/Kg	09/29/13	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Aniline	ND	1200	ug/Kg	09/29/13	DD	SW 8270	
Anthracene	390	280	ug/Kg	09/29/13	DD	SW 8270	
Benz(a)anthracene	1500	280	ug/Kg	09/29/13	DD	SW 8270	
Benzidine	ND	480	ug/Kg	09/29/13	DD	SW 8270	
Benzo(a)pyrene	1300	280	ug/Kg	09/29/13	DD	SW 8270	
Benzo(b)fluoranthene	3800	280	ug/Kg	09/29/13	DD	SW 8270	
Benzo(ghi)perylene	490	280	ug/Kg	09/29/13	DD	SW 8270	
Benzo(k)fluoranthene	1300	280	ug/Kg	09/29/13	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	09/29/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	400	ug/Kg	09/29/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	09/29/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	510	280	ug/Kg	09/29/13	DD	SW 8270	
Carbazole	ND	600	ug/Kg	09/29/13	DD	SW 8270	
Chrysene	2000	280	ug/Kg	09/29/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Dibenzofuran	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Fluoranthene	2900	280	ug/Kg	09/29/13	DD	SW 8270	
Fluorene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	460	280	ug/Kg	09/29/13	DD	SW 8270	
Isophorone	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Naphthalene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	09/29/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	400	ug/Kg	09/29/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: SC-3

Phoenix I.D.: BF45892

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	09/29/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	400	ug/Kg	09/29/13	DD	SW 8270
Pentachloronitrobenzene	ND	400	ug/Kg	09/29/13	DD	SW 8270
Pentachlorophenol	ND	400	ug/Kg	09/29/13	DD	SW 8270
Phenanthrene	1000	280	ug/Kg	09/29/13	DD	SW 8270
Phenol	ND	280	ug/Kg	09/29/13	DD	SW 8270
Pyrene	2400	280	ug/Kg	09/29/13	DD	SW 8270
Pyridine	ND	400	ug/Kg	09/29/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	121		%	09/29/13	DD	30 - 130 %
% 2-Fluorobiphenyl	83		%	09/29/13	DD	30 - 130 %
% 2-Fluorophenol	86		%	09/29/13	DD	30 - 130 %
% Nitrobenzene-d5	80		%	09/29/13	DD	30 - 130 %
% Phenol-d5	99		%	09/29/13	DD	30 - 130 %
% Terphenyl-d14	91		%	09/29/13	DD	30 - 130 %

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

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

Comments:

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

* 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
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	12:10
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45893

Project ID: LARCHMONT
Client ID: RC-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	09/27/13	EK	SW6010
Aluminum	23400	72	mg/Kg	09/27/13	EK	SW6010
Arsenic	8.3	1.0	mg/Kg	09/27/13	EK	SW6010
Barium	182	0.48	mg/Kg	09/27/13	EK	SW6010
Beryllium	0.88	0.38	mg/Kg	09/27/13	EK	SW6010
Calcium	8340	72	mg/Kg	09/30/13	EK	SW6010
Cadmium	2.67	0.48	mg/Kg	09/27/13	EK	SW6010
Cobalt	20.8	0.48	mg/Kg	09/27/13	EK	SW6010
Chromium	37.3	0.48	mg/Kg	09/27/13	EK	SW6010
Copper	109	4.8	mg/kg	09/27/13	EK	SW6010
Iron	34200	72	mg/Kg	09/27/13	EK	SW6010
Mercury	0.27	0.10	mg/Kg	09/27/13	RS	SW-7471
Potassium	5360	72	mg/Kg	09/27/13	EK	SW6010
Magnesium	11000	72	mg/Kg	09/27/13	EK	SW6010
Manganese	560	4.8	mg/Kg	09/27/13	EK	SW6010
Sodium	299	7.2	mg/Kg	09/27/13	EK	SW6010
Nickel	36.0	0.48	mg/Kg	09/27/13	EK	SW6010
Lead	311	4.8	mg/Kg	09/27/13	EK	SW6010
Antimony	< 4.8	4.8	mg/Kg	09/27/13	EK	SW6010
Selenium	< 2.0	2.0	mg/Kg	09/27/13	EK	SW6010
Thallium	< 4.3	4.3	mg/Kg	09/27/13	EK	SW6010
Vanadium	123	4.8	mg/Kg	09/27/13	EK	SW6010
Zinc	261	4.8	mg/Kg	09/27/13	EK	SW6010
Percent Solid	68		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: RC-1

Phoenix I.D.: BF45893

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035
Chlorinated Herbicides						
2,4,5-T	ND	61	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	61	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	61	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	610	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	61	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	120	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	61	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	120	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	59		%	09/27/13	CE	30 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	110	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	97	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	97	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	69		%	09/27/13	AW	30 - 150 %
% TCMX	71		%	09/27/13	AW	30 - 150 %
Pesticides						
4,4' -DDD	ND	2.9	ug/Kg	09/27/13	MH	SW8081
4,4' -DDE	13	2.9	ug/Kg	09/27/13	MH	SW8081
4,4' -DDT	63	2.9	ug/Kg	09/27/13	MH	SW8081
a-BHC	ND	4.7	ug/Kg	09/27/13	MH	SW8081
Alachlor	ND	4.7	ug/Kg	09/27/13	MH	SW8081 1
Aldrin	ND	1.4	ug/Kg	09/27/13	MH	SW8081
b-BHC	ND	4.7	ug/Kg	09/27/13	MH	SW8081
Chlordane	ND	14	ug/Kg	09/27/13	MH	SW8081
d-BHC	ND	4.7	ug/Kg	09/27/13	MH	SW8081
Dieldrin	ND*	6.8	ug/Kg	09/27/13	MH	SW8081
Endosulfan I	ND	4.7	ug/Kg	09/27/13	MH	SW8081
Endosulfan II	ND	9.3	ug/Kg	09/27/13	MH	SW8081
Endosulfan sulfate	ND	9.3	ug/Kg	09/27/13	MH	SW8081
Endrin	ND	9.3	ug/Kg	09/27/13	MH	SW8081
Endrin aldehyde	ND	9.3	ug/Kg	09/27/13	MH	SW8081
Endrin ketone	ND	9.3	ug/Kg	09/27/13	MH	SW8081
g-BHC	ND	1.4	ug/Kg	09/27/13	MH	SW8081
Heptachlor	ND	5.3	ug/Kg	09/27/13	MH	SW8081
Heptachlor epoxide	ND	4.7	ug/Kg	09/27/13	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	47	ug/Kg	09/27/13	MH	SW8081	
Toxaphene	ND	47	ug/Kg	09/27/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	72		%	09/27/13	MH	30 - 150 %	
% TCMX	69		%	09/27/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	7.1	ug/Kg	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	12	ug/Kg	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	12	ug/Kg	09/27/13	HM	SW8260	
2-Hexanone	ND	60	ug/Kg	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	12	ug/Kg	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	12	ug/Kg	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	60	ug/Kg	09/27/13	HM	SW8260	
Acetone	ND	71	ug/Kg	09/27/13	HM	SW8260	
Acrylonitrile	ND	12	ug/Kg	09/27/13	HM	SW8260	
Benzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Bromobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Bromochloromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Bromodichloromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Bromoform	ND	12	ug/Kg	09/27/13	HM	SW8260	
Bromomethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Carbon Disulfide	ND	12	ug/Kg	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	12	ug/Kg	09/27/13	HM	SW8260	
Chlorobenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Chloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Chloroform	ND	12	ug/Kg	09/27/13	HM	SW8260	
Chloromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	12	ug/Kg	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Dibromochloromethane	ND	7.1	ug/Kg	09/27/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Ethylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Isopropylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
m&p-Xylene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Methyl Ethyl Ketone	ND	71	ug/Kg	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	24	ug/Kg	09/27/13	HM	SW8260	
Methylene chloride	ND	12	ug/Kg	09/27/13	HM	SW8260	
Naphthalene	ND	12	ug/Kg	09/27/13	HM	SW8260	
n-Butylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
n-Propylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
o-Xylene	ND	12	ug/Kg	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	12	ug/Kg	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Styrene	ND	12	ug/Kg	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Tetrachloroethene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	24	ug/Kg	09/27/13	HM	SW8260	1
Toluene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Total Xylenes	ND	12	ug/Kg	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	12	ug/Kg	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	12	ug/Kg	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	24	ug/Kg	09/27/13	HM	SW8260	
Trichloroethene	ND	12	ug/Kg	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
Vinyl chloride	ND	12	ug/Kg	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	91		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	97		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	98		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270
1,2-Dichlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	490	ug/Kg	09/27/13	DD	SW 8270
1,3-Dichlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270
1,4-Dichlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,4-Dichlorophenol	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,4-Dimethylphenol	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrophenol	ND	780	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrotoluene	ND	340	ug/Kg	09/27/13	DD	SW 8270
2,6-Dinitrotoluene	ND	340	ug/Kg	09/27/13	DD	SW 8270
2-Chloronaphthalene	ND	340	ug/Kg	09/27/13	DD	SW 8270
2-Chlorophenol	ND	340	ug/Kg	09/27/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	340	ug/Kg	09/27/13	DD	SW 8270	
2-Nitroaniline	ND	780	ug/Kg	09/27/13	DD	SW 8270	
2-Nitrophenol	ND	340	ug/Kg	09/27/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	490	ug/Kg	09/27/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	340	ug/Kg	09/27/13	DD	SW 8270	
3-Nitroaniline	ND	780	ug/Kg	09/27/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1400	ug/Kg	09/27/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	490	ug/Kg	09/27/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	340	ug/Kg	09/27/13	DD	SW 8270	
4-Chloroaniline	ND	340	ug/Kg	09/27/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	340	ug/Kg	09/27/13	DD	SW 8270	
4-Nitroaniline	ND	780	ug/Kg	09/27/13	DD	SW 8270	
4-Nitrophenol	ND	1400	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthylene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Acetophenone	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Aniline	ND	1400	ug/Kg	09/27/13	DD	SW 8270	
Anthracene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Benz(a)anthracene	760	340	ug/Kg	09/27/13	DD	SW 8270	
Benzidine	ND	590	ug/Kg	09/27/13	DD	SW 8270	
Benzo(a)pyrene	780	340	ug/Kg	09/27/13	DD	SW 8270	
Benzo(b)fluoranthene	1400	340	ug/Kg	09/27/13	DD	SW 8270	
Benzo(ghi)perylene	440	340	ug/Kg	09/27/13	DD	SW 8270	
Benzo(k)fluoranthene	470	340	ug/Kg	09/27/13	DD	SW 8270	
Benzoic acid	ND	1400	ug/Kg	09/27/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	490	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	340	ug/Kg	09/27/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Carbazole	ND	730	ug/Kg	09/27/13	DD	SW 8270	
Chrysene	1000	340	ug/Kg	09/27/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Dibenzofuran	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Diethyl phthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Dimethylphthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Di-n-butylphthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Di-n-octylphthalate	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Fluoranthene	1600	340	ug/Kg	09/27/13	DD	SW 8270	
Fluorene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobutadiene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Hexachloroethane	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	370	340	ug/Kg	09/27/13	DD	SW 8270	
Isophorone	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Naphthalene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
Nitrobenzene	ND	340	ug/Kg	09/27/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	490	ug/Kg	09/27/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: RC-1

Phoenix I.D.: BF45893

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	340	ug/Kg	09/27/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	490	ug/Kg	09/27/13	DD	SW 8270
Pentachloronitrobenzene	ND	490	ug/Kg	09/27/13	DD	SW 8270
Pentachlorophenol	ND	490	ug/Kg	09/27/13	DD	SW 8270
Phenanthrene	810	340	ug/Kg	09/27/13	DD	SW 8270
Phenol	ND	340	ug/Kg	09/27/13	DD	SW 8270
Pyrene	1200	340	ug/Kg	09/27/13	DD	SW 8270
Pyridine	ND	490	ug/Kg	09/27/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	96		%	09/27/13	DD	30 - 130 %
% 2-Fluorobiphenyl	82		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	78		%	09/27/13	DD	30 - 130 %
% Nitrobenzene-d5	75		%	09/27/13	DD	30 - 130 %
% Phenol-d5	89		%	09/27/13	DD	30 - 130 %
% Terphenyl-d14	77		%	09/27/13	DD	30 - 130 %

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

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

Comments:

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

* 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
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	12:20
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45894

Project ID: LARCHMONT
Client ID: RC-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	09/27/13	EK	SW6010
Aluminum	24200	68	mg/Kg	09/27/13	EK	SW6010
Arsenic	10.5	0.9	mg/Kg	09/27/13	EK	SW6010
Barium	221	0.45	mg/Kg	09/27/13	EK	SW6010
Beryllium	1.00	0.36	mg/Kg	09/27/13	EK	SW6010
Calcium	4100	6.8	mg/Kg	09/30/13	EK	SW6010
Cadmium	2.65	0.45	mg/Kg	09/27/13	EK	SW6010
Cobalt	20.5	0.45	mg/Kg	09/27/13	EK	SW6010
Chromium	36.8	0.45	mg/Kg	09/27/13	EK	SW6010
Copper	123	4.5	mg/kg	09/27/13	EK	SW6010
Iron	30000	68	mg/Kg	09/27/13	EK	SW6010
Mercury	0.47	0.10	mg/Kg	09/27/13	RS	SW-7471
Potassium	2250	68	mg/Kg	09/27/13	EK	SW6010
Magnesium	8780	68	mg/Kg	09/27/13	EK	SW6010
Manganese	1450	4.5	mg/Kg	09/27/13	EK	SW6010
Sodium	359	6.8	mg/Kg	09/27/13	EK	SW6010
Nickel	32.8	0.45	mg/Kg	09/27/13	EK	SW6010
Lead	403	4.5	mg/Kg	09/27/13	EK	SW6010
Antimony	< 4.5	4.5	mg/Kg	09/27/13	EK	SW6010
Selenium	< 2.0	2.0	mg/Kg	09/27/13	EK	SW6010
Thallium	< 4.1	4.1	mg/Kg	09/30/13	EK	SW6010
Vanadium	118	4.5	mg/Kg	09/27/13	EK	SW6010
Zinc	247	4.5	mg/Kg	09/27/13	EK	SW6010
Percent Solid	78		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	53	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	53	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	53	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	530	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	53	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	100	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	53	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	100	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	50		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	84	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	83	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	83	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	71		%	09/27/13	AW	30 - 150 %
% TCMX	68		%	09/27/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4,4' -DDD	8.6	8.0	ug/Kg	10/02/13	MH	SW8081
4,4' -DDE	16	8.0	ug/Kg	10/02/13	MH	SW8081
4,4' -DDT	32	8.0	ug/Kg	10/02/13	MH	SW8081
a-BHC	ND	4.0	ug/Kg	10/02/13	MH	SW8081
Alachlor	ND	4.0	ug/Kg	10/02/13	MH	SW8081 [1]
Aldrin	ND	1.2	ug/Kg	10/02/13	MH	SW8081
b-BHC	ND	4.0	ug/Kg	10/02/13	MH	SW8081
Chlordane	ND	12	ug/Kg	10/02/13	MH	SW8081
d-BHC	ND	4.0	ug/Kg	10/02/13	MH	SW8081
Dieldrin	ND	4.0	ug/Kg	10/02/13	MH	SW8081
Endosulfan I	ND	4.0	ug/Kg	10/02/13	MH	SW8081
Endosulfan II	ND	8.0	ug/Kg	10/02/13	MH	SW8081
Endosulfan sulfate	ND	16	ug/Kg	10/02/13	MH	SW8081
Endrin	ND	8.0	ug/Kg	10/02/13	MH	SW8081
Endrin aldehyde	ND	8.0	ug/Kg	10/02/13	MH	SW8081
Endrin ketone	ND	8.0	ug/Kg	10/02/13	MH	SW8081
g-BHC	ND	1.2	ug/Kg	10/02/13	MH	SW8081
Heptachlor	ND	2.5	ug/Kg	10/02/13	MH	SW8081
Heptachlor epoxide	ND	4.0	ug/Kg	10/02/13	MH	SW8081

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	40	ug/Kg	10/02/13	MH	SW8081	
Toxaphene	ND	40	ug/Kg	10/02/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	66		%	10/02/13	MH	30 - 150 %	
% TCMX	70		%	10/02/13	MH	30 - 150 %	

Volatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1,1,2-Tetrachloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	12	ug/Kg	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	20	ug/Kg	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	20	ug/Kg	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	20	ug/Kg	09/27/13	HM	SW8260	
2-Hexanone	ND	98	ug/Kg	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	20	ug/Kg	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	20	ug/Kg	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	98	ug/Kg	09/27/13	HM	SW8260	
Acetone	ND	120	ug/Kg	09/27/13	HM	SW8260	
Acrylonitrile	ND	20	ug/Kg	09/27/13	HM	SW8260	
Benzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Bromobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Bromochloromethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Bromodichloromethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Bromoform	ND	20	ug/Kg	09/27/13	HM	SW8260	
Bromomethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Carbon Disulfide	ND	20	ug/Kg	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	20	ug/Kg	09/27/13	HM	SW8260	
Chlorobenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Chloroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Chloroform	ND	20	ug/Kg	09/27/13	HM	SW8260	
Chloromethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	20	ug/Kg	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Dibromochloromethane	ND	12	ug/Kg	09/27/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Ethylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Isopropylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
m&p-Xylene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Methyl Ethyl Ketone	ND	120	ug/Kg	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	39	ug/Kg	09/27/13	HM	SW8260	
Methylene chloride	ND	20	ug/Kg	09/27/13	HM	SW8260	
Naphthalene	ND	20	ug/Kg	09/27/13	HM	SW8260	
n-Butylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
n-Propylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
o-Xylene	ND	20	ug/Kg	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	20	ug/Kg	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Styrene	ND	20	ug/Kg	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Tetrachloroethene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	39	ug/Kg	09/27/13	HM	SW8260	1
Toluene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Total Xylenes	ND	20	ug/Kg	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	20	ug/Kg	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	20	ug/Kg	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	39	ug/Kg	09/27/13	HM	SW8260	
Trichloroethene	ND	20	ug/Kg	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	20	ug/Kg	09/27/13	HM	SW8260	
Vinyl chloride	ND	20	ug/Kg	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	87		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	98		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	94		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	430	ug/Kg	09/27/13	DD	SW 8270
1,3-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,4-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrophenol	ND	680	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2-Chlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	300	ug/Kg	09/27/13	DD	SW 8270	
2-Nitroaniline	ND	680	ug/Kg	09/27/13	DD	SW 8270	
2-Nitrophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	09/27/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	300	ug/Kg	09/27/13	DD	SW 8270	
3-Nitroaniline	ND	680	ug/Kg	09/27/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	09/27/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	430	ug/Kg	09/27/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Chloroaniline	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Nitroaniline	ND	680	ug/Kg	09/27/13	DD	SW 8270	
4-Nitrophenol	ND	1200	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthylene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Acetophenone	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Aniline	ND	1200	ug/Kg	09/27/13	DD	SW 8270	
Anthracene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Benz(a)anthracene	810	300	ug/Kg	09/27/13	DD	SW 8270	
Benzidine	ND	510	ug/Kg	09/27/13	DD	SW 8270	
Benzo(a)pyrene	930	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(b)fluoranthene	2200	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(ghi)perylene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(k)fluoranthene	690	300	ug/Kg	09/27/13	DD	SW 8270	
Benzoic acid	ND	1200	ug/Kg	09/27/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	430	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	09/27/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Carbazole	ND	640	ug/Kg	09/27/13	DD	SW 8270	
Chrysene	1200	300	ug/Kg	09/27/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Di-n-butylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Fluoranthene	1500	300	ug/Kg	09/27/13	DD	SW 8270	
Fluorene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachloroethane	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Isophorone	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Naphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Nitrobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	430	ug/Kg	09/27/13	DD	SW 8270	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	09/27/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	430	ug/Kg	09/27/13	DD	SW 8270
Pentachloronitrobenzene	ND	430	ug/Kg	09/27/13	DD	SW 8270
Pentachlorophenol	ND	430	ug/Kg	09/27/13	DD	SW 8270
Phenanthrene	820	300	ug/Kg	09/27/13	DD	SW 8270
Phenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
Pyrene	1200	300	ug/Kg	09/27/13	DD	SW 8270
Pyridine	ND	430	ug/Kg	09/27/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	87		%	09/27/13	DD	30 - 130 %
% 2-Fluorobiphenyl	75		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	63		%	09/27/13	DD	30 - 130 %
% Nitrobenzene-d5	68		%	09/27/13	DD	30 - 130 %
% Phenol-d5	73		%	09/27/13	DD	30 - 130 %
% Terphenyl-d14	63		%	09/27/13	DD	30 - 130 %

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

October 08, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	MG	09/25/13	12:30
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45890
Phoenix ID: BF45895

Project ID: LARCHMONT
Client ID: RC-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.47	0.47	mg/Kg	09/27/13	EK	SW6010
Aluminum	20500	70	mg/Kg	09/27/13	EK	SW6010
Arsenic	13.0	0.9	mg/Kg	09/27/13	EK	SW6010
Barium	156	0.47	mg/Kg	09/27/13	EK	SW6010
Beryllium	0.71	0.38	mg/Kg	09/27/13	EK	SW6010
Calcium	2690	70	mg/Kg	09/30/13	EK	SW6010
Cadmium	1.93	0.47	mg/Kg	09/27/13	EK	SW6010
Cobalt	11.3	0.47	mg/Kg	09/27/13	EK	SW6010
Chromium	30.1	0.47	mg/Kg	09/27/13	EK	SW6010
Copper	82.2	0.47	mg/kg	09/27/13	EK	SW6010
Iron	25700	70	mg/Kg	09/27/13	EK	SW6010
Mercury	0.22	0.09	mg/Kg	09/27/13	RS	SW-7471
Potassium	1460	70	mg/Kg	09/27/13	EK	SW6010
Magnesium	5400	70	mg/Kg	09/27/13	EK	SW6010
Manganese	786	4.7	mg/Kg	09/27/13	EK	SW6010
Sodium	144	7.0	mg/Kg	09/27/13	EK	SW6010
Nickel	24.4	0.47	mg/Kg	09/27/13	EK	SW6010
Lead	223	4.7	mg/Kg	09/27/13	EK	SW6010
Antimony	< 4.7	4.7	mg/Kg	09/27/13	EK	SW6010
Selenium	< 1.9	1.9	mg/Kg	09/27/13	EK	SW6010
Thallium	< 4.2	4.2	mg/Kg	09/30/13	EK	SW6010
Vanadium	76.4	0.47	mg/Kg	09/27/13	EK	SW6010
Zinc	161	4.7	mg/Kg	09/27/13	EK	SW6010
Percent Solid	76		%	09/26/13	W	E160.3
Soil Extraction for PCB	Completed			09/26/13	BB	SW3545
Soil Extraction for Pesticide	Completed			09/26/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			09/26/13	JJ/FV	SW3545
Mercury Digestion	Completed			09/27/13	I/I	SW7471

Project ID: LARCHMONT
Client ID: RC-3

Phoenix I.D.: BF45895

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Soil Extraction for Herbicide	Completed			09/26/13	M/W	SW8151
Total Metals Digest	Completed			09/26/13	Z/AG	SW846 - 3050
Field Extraction	Completed			09/25/13		SW5035

Chlorinated Herbicides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,4,5-T	ND	54	ug/Kg	09/27/13	CE	SW8151
2,4,5-TP (Silvex)	ND	54	ug/Kg	09/27/13	CE	SW8151
2,4-D	ND	54	ug/Kg	09/27/13	CE	SW8151
2,4-DB	ND	540	ug/Kg	09/27/13	CE	SW8151
Dalapon	ND	54	ug/Kg	09/27/13	CE	SW8151
Dicamba	ND	110	ug/Kg	09/27/13	CE	SW8151
Dichloroprop	ND	54	ug/Kg	09/27/13	CE	SW8151
Dinoseb	ND	110	ug/Kg	09/27/13	CE	SW8151
QA/QC Surrogates						
% DCAA	51		%	09/27/13	CE	30 - 150 %

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB-1016	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1221	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1232	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1242	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1248	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1254	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1260	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1262	ND	87	ug/Kg	09/27/13	AW	SW 8082
PCB-1268	ND	87	ug/Kg	09/27/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	71		%	09/27/13	AW	30 - 150 %
% TCMX	73		%	09/27/13	AW	30 - 150 %

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4,4' -DDD	ND*	4.4	ug/Kg	10/02/13	MH	SW8081	
4,4' -DDE	14	8.4	ug/Kg	10/02/13	MH	SW8081	
4,4' -DDT	37	8.4	ug/Kg	10/02/13	MH	SW8081	
a-BHC	ND	4.2	ug/Kg	10/02/13	MH	SW8081	
Alachlor	ND	4.2	ug/Kg	10/02/13	MH	SW8081	1
Aldrin	ND	1.3	ug/Kg	10/02/13	MH	SW8081	
b-BHC	ND	4.2	ug/Kg	10/02/13	MH	SW8081	
Chlordane	ND	13	ug/Kg	10/02/13	MH	SW8081	
d-BHC	ND	7.9	ug/Kg	10/02/13	MH	SW8081	
Dieldrin	ND	3.9	ug/Kg	10/02/13	MH	SW8081	
Endosulfan I	ND	4.2	ug/Kg	10/02/13	MH	SW8081	
Endosulfan II	ND	8.4	ug/Kg	10/02/13	MH	SW8081	
Endosulfan sulfate	ND	8.7	ug/Kg	10/02/13	MH	SW8081	
Endrin	ND	8.4	ug/Kg	10/02/13	MH	SW8081	
Endrin aldehyde	ND	8.4	ug/Kg	10/02/13	MH	SW8081	
Endrin ketone	ND	8.4	ug/Kg	10/02/13	MH	SW8081	
g-BHC	ND	1.3	ug/Kg	10/02/13	MH	SW8081	
Heptachlor	ND	3.5	ug/Kg	10/02/13	MH	SW8081	
Heptachlor epoxide	ND	4.2	ug/Kg	10/02/13	MH	SW8081	

Project ID: LARCHMONT
Client ID: RC-3

Phoenix I.D.: BF45895

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Methoxychlor	ND	42	ug/Kg	10/02/13	MH	SW8081	
Toxaphene	ND	42	ug/Kg	10/02/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	79		%	10/02/13	MH	30 - 150 %	
% TCMX	86		%	10/02/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.9	ug/Kg	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	11	ug/Kg	09/27/13	HM	SW8260	
2-Hexanone	ND	57	ug/Kg	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	11	ug/Kg	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	11	ug/Kg	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	57	ug/Kg	09/27/13	HM	SW8260	
Acetone	ND	69	ug/Kg	09/27/13	HM	SW8260	
Acrylonitrile	ND	11	ug/Kg	09/27/13	HM	SW8260	
Benzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Bromobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Bromochloromethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Bromodichloromethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Bromoform	ND	11	ug/Kg	09/27/13	HM	SW8260	
Bromomethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Carbon Disulfide	ND	11	ug/Kg	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	09/27/13	HM	SW8260	
Chlorobenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Chloroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Chloroform	ND	11	ug/Kg	09/27/13	HM	SW8260	
Chloromethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Dibromochloromethane	ND	6.9	ug/Kg	09/27/13	HM	SW8260	

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Phoenix I.D.: BF45895

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Dibromomethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Ethylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Isopropylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
m&p-Xylene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Methyl Ethyl Ketone	ND	69	ug/Kg	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	23	ug/Kg	09/27/13	HM	SW8260	
Methylene chloride	ND	11	ug/Kg	09/27/13	HM	SW8260	
Naphthalene	ND	11	ug/Kg	09/27/13	HM	SW8260	
n-Butylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
n-Propylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
o-Xylene	ND	11	ug/Kg	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	11	ug/Kg	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Styrene	ND	11	ug/Kg	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Tetrachloroethene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	23	ug/Kg	09/27/13	HM	SW8260	1
Toluene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Total Xylenes	ND	11	ug/Kg	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	23	ug/Kg	09/27/13	HM	SW8260	
Trichloroethene	ND	11	ug/Kg	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	09/27/13	HM	SW8260	
Vinyl chloride	ND	11	ug/Kg	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	92		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	97		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	430	ug/Kg	09/27/13	DD	SW 8270
1,3-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
1,4-Dichlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dichlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dimethylphenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrophenol	ND	690	ug/Kg	09/27/13	DD	SW 8270
2,4-Dinitrotoluene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2,6-Dinitrotoluene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2-Chloronaphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270
2-Chlorophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
2-Methylnaphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
2-Methylphenol (o-cresol)	ND	300	ug/Kg	09/27/13	DD	SW 8270	
2-Nitroaniline	ND	690	ug/Kg	09/27/13	DD	SW 8270	
2-Nitrophenol	ND	300	ug/Kg	09/27/13	DD	SW 8270	
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	09/27/13	DD	SW 8270	
3,3'-Dichlorobenzidine	ND	300	ug/Kg	09/27/13	DD	SW 8270	
3-Nitroaniline	ND	690	ug/Kg	09/27/13	DD	SW 8270	
4,6-Dinitro-2-methylphenol	ND	1300	ug/Kg	09/27/13	DD	SW 8270	
4-Bromophenyl phenyl ether	ND	430	ug/Kg	09/27/13	DD	SW 8270	
4-Chloro-3-methylphenol	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Chloroaniline	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	09/27/13	DD	SW 8270	
4-Nitroaniline	ND	690	ug/Kg	09/27/13	DD	SW 8270	
4-Nitrophenol	ND	1300	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Acenaphthylene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Acetophenone	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Aniline	ND	1300	ug/Kg	09/27/13	DD	SW 8270	
Anthracene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Benz(a)anthracene	560	300	ug/Kg	09/27/13	DD	SW 8270	
Benzidine	ND	520	ug/Kg	09/27/13	DD	SW 8270	
Benzo(a)pyrene	550	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(b)fluoranthene	1500	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(ghi)perylene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Benzo(k)fluoranthene	340	300	ug/Kg	09/27/13	DD	SW 8270	
Benzoic acid	ND	1300	ug/Kg	09/27/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	430	ug/Kg	09/27/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	09/27/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Carbazole	ND	650	ug/Kg	09/27/13	DD	SW 8270	
Chrysene	760	300	ug/Kg	09/27/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Dibenzofuran	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Diethyl phthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Dimethylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Di-n-butylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Di-n-octylphthalate	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Fluoranthene	970	300	ug/Kg	09/27/13	DD	SW 8270	
Fluorene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorobutadiene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Hexachloroethane	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Isophorone	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Naphthalene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
Nitrobenzene	ND	300	ug/Kg	09/27/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	430	ug/Kg	09/27/13	DD	SW 8270	

Project ID: LARCHMONT
Client ID: RC-3

Phoenix I.D.: BF45895

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	09/27/13	DD	SW 8270
N-Nitrosodiphenylamine	ND	430	ug/Kg	09/27/13	DD	SW 8270
Pentachloronitrobenzene	ND	430	ug/Kg	09/27/13	DD	SW 8270
Pentachlorophenol	ND	430	ug/Kg	09/27/13	DD	SW 8270
Phenanthrene	540	300	ug/Kg	09/27/13	DD	SW 8270
Phenol	ND	300	ug/Kg	09/27/13	DD	SW 8270
Pyrene	750	300	ug/Kg	09/27/13	DD	SW 8270
Pyridine	ND	430	ug/Kg	09/27/13	DD	SW 8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	99		%	09/27/13	DD	30 - 130 %
% 2-Fluorobiphenyl	88		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	73		%	09/27/13	DD	30 - 130 %
% Nitrobenzene-d5	71		%	09/27/13	DD	30 - 130 %
% Phenol-d5	73		%	09/27/13	DD	30 - 130 %
% Terphenyl-d14	77		%	09/27/13	DD	30 - 130 %

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

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

Comments:

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

* 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
October 08, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

NY # 11301

QA/QC Report

October 08, 2013

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 255008, QC Sample No: BF45674 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)													
ICP Metals - Soil													
Aluminum	BRL	6860	7520	9.20	83.6	85.5	2.2	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.7	<3.7	NC	90.5	89.7	0.9	77.2	77.1	0.1	75 - 125	30	
Arsenic	BRL	1.9	1.81	NC	86.3	87.9	1.8	82.7	83.6	1.1	75 - 125	30	
Barium	BRL	39.5	44.8	12.6	91.7	101	9.7	74.6	75.4	1.1	75 - 125	30	
Beryllium	BRL	<0.29	<0.29	NC	95.0	98.1	3.2	90.1	90.3	0.2	75 - 125	30	
Cadmium	BRL	<0.37	0.44	NC	87.1	93.8	7.4	84.6	85.4	0.9	75 - 125	30	
Calcium	BRL	581	578	0.50	86.6	97.3	11.6	>130	>130	NC	75 - 125	30	m
Chromium	BRL	9.21	10.5	13.1	90.2	93.6	3.7	87.9	89.2	1.5	75 - 125	30	
Cobalt	BRL	4.16	5.10	20.3	92.3	93.9	1.7	84.9	86.4	1.8	75 - 125	30	
Copper	BRL	6.96	7.31	4.90	91.9	98.3	6.7	93.2	96.7	3.7	75 - 125	30	
Iron	BRL	8390	9640	13.9	84.8	89.1	4.9	NC	NC	NC	75 - 125	30	
Lead	BRL	5.17	5.05	2.30	85.4	90.2	5.5	82.4	83.5	1.3	75 - 125	30	
Magnesium	BRL	1670	1910	13.4	82.0	83.4	1.7	NC	NC	NC	75 - 125	30	
Manganese	BRL	195	260	28.6	91.8	94.7	3.1	115	95.0	19.0	75 - 125	30	
Nickel	BRL	6.70	8.21	20.3	90.0	93.2	3.5	85.9	87.2	1.5	75 - 125	30	
Potassium	BRL	745	913	20.3	95.2	95.9	0.7	127	>130	NC	75 - 125	30	m
Selenium	BRL	<1.5	<1.5	NC	84.0	89.0	5.8	81.2	82.2	1.2	75 - 125	30	
Silver	BRL	<0.37	<0.37	NC	85.4	88.2	3.2	85.5	86.0	0.6	75 - 125	30	
Sodium	BRL	58.0	70.0	18.8	98.8	106	7.0	>130	>130	NC	75 - 125	30	m
Thallium	BRL	<3.3	<3.3	NC	86.8	90.6	4.3	84.3	85.2	1.1	75 - 125	30	
Vanadium	BRL	15.7	17.7	12.0	95.9	98.8	3.0	90.6	90.5	0.1	75 - 125	30	
Zinc	BRL	15.6	18.3	15.9	84.6	87.4	3.3	84.3	85.6	1.5	75 - 125	30	
QA/QC Batch 255076, QC Sample No: BF45674 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)													
Mercury - Soil	BRL	<0.07	<0.06	NC	90.5	77.8	15.1	88.8	94.9	6.6	70 - 130	30	

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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

PHOENIX

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

NY # 11301

QA/QC Report

October 08, 2013

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 254744, QC Sample No: BF45184 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	69	61	12.3	74	70	5.6	40 - 140	30	
2,4,5-TP (Silvex)	ND	72	68	5.7	81	76	6.4	40 - 140	30	
2,4-D	ND	64	59	8.1	69	69	0.0	40 - 140	30	
2,4-DB	ND	53	54	1.9	63	62	1.6	40 - 140	30	
Dalapon	ND	59	56	5.2	55	54	1.8	40 - 140	30	
Dicamba	ND	75	69	8.3	83	78	6.2	40 - 140	30	
Dichloroprop	ND	65	54	18.5	69	65	6.0	40 - 140	30	
Dinoseb	ND	98	80	20.2	79	78	1.3	40 - 140	30	
% DCAA (Surrogate Rec)	58	56	53	5.5	62	59	5.0	30 - 150	30	
QA/QC Batch 254949, QC Sample No: BF45589 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)										
Semivolatiles - Soil										
1,2,4,5-Tetrachlorobenzene	ND	81	73	10.4	103	104	1.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	77	74	4.0	92	92	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	73	69	5.6	76	75	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	71	81	13.2	67	69	2.9	30 - 130	30	
1,3-Dichlorobenzene	ND	74	70	5.6	75	74	1.3	30 - 130	30	
1,4-Dichlorobenzene	ND	72	70	2.8	76	76	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	83	72	14.2	100	102	2.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	84	79	6.1	101	103	2.0	30 - 130	30	
2,4-Dichlorophenol	ND	83	80	3.7	92	93	1.1	30 - 130	30	
2,4-Dimethylphenol	ND	51	50	2.0	55	55	0.0	30 - 130	30	
2,4-Dinitrophenol	ND	<5	<5	NC	19	9.3	68.6	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	82	78	5.0	83	86	3.6	30 - 130	30	
2,6-Dinitrotoluene	ND	80	78	2.5	84	87	3.5	30 - 130	30	
2-Chloronaphthalene	ND	78	74	5.3	83	83	0.0	30 - 130	30	
2-Chlorophenol	ND	77	75	2.6	72	72	0.0	30 - 130	30	
2-Methylnaphthalene	ND	79	77	2.6	79	78	1.3	30 - 130	30	
2-Methylphenol (o-cresol)	ND	66	69	4.4	72	72	0.0	30 - 130	30	
2-Nitroaniline	ND	122	141	14.4	>150	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	69	69	0.0	77	79	2.6	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	72	71	1.4	70	70	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	110	121	9.5	30 - 130	30	l
3-Nitroaniline	ND	104	99	4.9	90	93	3.3	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	37	43	15.0	48	30	46.2	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	73	72	1.4	74	75	1.3	30 - 130	30	
4-Chloro-3-methylphenol	ND	78	77	1.3	79	82	3.7	30 - 130	30	
4-Chloroaniline	ND	63	64	1.6	53	60	12.4	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	83	72	14.2	97	100	3.0	30 - 130	30	
4-Nitroaniline	ND	71	69	2.9	72	75	4.1	30 - 130	30	
4-Nitrophenol	ND	67	80	17.7	68	72	5.7	30 - 130	30	
Acenaphthene	ND	79	82	3.7	78	78	0.0	30 - 130	30	

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acenaphthylene	ND	79	75	5.2	77	79	2.6	30 - 130	30	
Acetophenone	ND	74	73	1.4	77	76	1.3	30 - 130	30	
Aniline	ND	79	77	2.6	57	60	5.1	30 - 130	30	
Anthracene	ND	81	79	2.5	86	86	0.0	30 - 130	30	
Benz(a)anthracene	ND	90	78	14.3	88	91	3.4	30 - 130	30	
Benzidine	ND	100	89	11.6	7.7	9.6	22.0	30 - 130	30	m
Benzo(a)pyrene	ND	76	73	4.0	81	82	1.2	30 - 130	30	
Benzo(b)fluoranthene	ND	88	83	5.8	96	90	6.5	30 - 130	30	
Benzo(ghi)perylene	ND	64	65	1.6	100	102	2.0	30 - 130	30	
Benzo(k)fluoranthene	ND	89	86	3.4	84	88	4.7	30 - 130	30	
Benzyl butyl phthalate	ND	83	73	12.8	76	81	6.4	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	74	71	4.1	70	70	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	68	65	4.5	70	68	2.9	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	60	59	1.7	70	69	1.4	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	97	78	21.7	77	81	5.1	30 - 130	30	
Carbazole	ND	111	120	7.8	139	141	1.4	30 - 130	30	m
Chrysene	ND	83	80	3.7	82	88	7.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	69	71	2.9	97	101	4.0	30 - 130	30	
Dibenzofuran	ND	80	72	10.5	84	86	2.4	30 - 130	30	
Diethyl phthalate	ND	81	71	13.2	78	80	2.5	30 - 130	30	
Dimethylphthalate	ND	80	79	1.3	82	84	2.4	30 - 130	30	
Di-n-butylphthalate	ND	79	71	10.7	73	75	2.7	30 - 130	30	
Di-n-octylphthalate	ND	86	76	12.3	70	73	4.2	30 - 130	30	
Fluoranthene	ND	85	76	11.2	94	95	1.1	30 - 130	30	
Fluorene	ND	83	81	2.4	87	90	3.4	30 - 130	30	
Hexachlorobenzene	ND	80	82	2.5	74	76	2.7	30 - 130	30	
Hexachlorobutadiene	ND	79	78	1.3	101	101	0.0	30 - 130	30	
Hexachlorocyclopentadiene	ND	81	78	3.8	31	18	53.1	30 - 130	30	m,r
Hexachloroethane	ND	69	67	2.9	69	65	6.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	68	69	1.5	98	101	3.0	30 - 130	30	
Isophorone	ND	79	76	3.9	72	73	1.4	30 - 130	30	
Naphthalene	ND	77	75	2.6	72	71	1.4	30 - 130	30	
Nitrobenzene	ND	66	65	1.5	72	70	2.8	30 - 130	30	
N-Nitrosodimethylamine	ND	67	75	11.3	54	53	1.9	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	67	67	0.0	76	75	1.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	88	100	12.8	95	99	4.1	30 - 130	30	
Pentachloronitrobenzene	ND	86	85	1.2	95	96	1.0	30 - 130	30	
Pentachlorophenol	ND	49	52	5.9	51	53	3.8	30 - 130	30	
Phenanthrene	ND	82	80	2.5	87	88	1.1	30 - 130	30	
Phenol	ND	75	73	2.7	72	71	1.4	30 - 130	30	
Pyrene	ND	84	75	11.3	95	95	0.0	30 - 130	30	
Pyridine	ND	57	63	10.0	41	38	7.6	30 - 130	30	
% 2,4,6-Tribromophenol	64	76	82	7.6	78	78	0.0	30 - 130	30	
% 2-Fluorobiphenyl	78	78	68	13.7	86	86	0.0	30 - 130	30	
% 2-Fluorophenol	72	82	71	14.4	66	64	3.1	30 - 130	30	
% Nitrobenzene-d5	65	68	65	4.5	70	70	0.0	30 - 130	30	
% Phenol-d5	74	76	74	2.7	73	72	1.4	30 - 130	30	
% Terphenyl-d14	79	94	83	12.4	100	100	0.0	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 255519, QC Sample No: BF45890 (BF45890 (50X))										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	108	95	12.8	117	115	1.7	70 - 130	30	
1,1,1-Trichloroethane	ND	105	94	11.1	119	122	2.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	92	84	9.1	105	100	4.9	70 - 130	30	
1,1,2-Trichloroethane	ND	105	96	9.0	109	109	0.0	70 - 130	30	
1,1-Dichloroethane	ND	110	85	25.6	120	99	19.2	70 - 130	30	
1,1-Dichloroethene	ND	110	94	15.7	92	109	16.9	70 - 130	30	
1,1-Dichloropropene	ND	106	92	14.1	124	113	9.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	107	86	21.8	115	114	0.9	70 - 130	30	
1,2,3-Trichloropropane	ND	100	91	9.4	112	103	8.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	110	84	26.8	125	118	5.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	106	89	17.4	123	118	4.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	111	107	3.7	114	108	5.4	70 - 130	30	
1,2-Dibromoethane	ND	107	96	10.8	113	109	3.6	70 - 130	30	
1,2-Dichlorobenzene	ND	101	88	13.8	114	111	2.7	70 - 130	30	
1,2-Dichloroethane	ND	107	98	8.8	116	112	3.5	70 - 130	30	
1,2-Dichloropropane	ND	101	90	11.5	111	108	2.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	105	88	17.6	125	117	6.6	70 - 130	30	
1,3-Dichlorobenzene	ND	99	85	15.2	115	110	4.4	70 - 130	30	
1,3-Dichloropropane	ND	106	95	10.9	115	110	4.4	70 - 130	30	
1,4-Dichlorobenzene	ND	100	84	17.4	115	110	4.4	70 - 130	30	
2,2-Dichloropropane	ND	106	89	17.4	114	109	4.5	70 - 130	30	
2-Chlorotoluene	ND	103	90	13.5	120	111	7.8	70 - 130	30	
2-Hexanone	ND	125	111	11.9	120	112	6.9	70 - 130	30	
2-Isopropyltoluene	ND	106	85	22.0	126	120	4.9	70 - 130	30	
4-Chlorotoluene	ND	99	83	17.6	118	112	5.2	70 - 130	30	
4-Methyl-2-pentanone	ND	118	109	7.9	121	117	3.4	70 - 130	30	
Acetone	ND	95	84	12.3	69	80	14.8	70 - 130	30	m
Acrylonitrile	ND	106	77	31.7	109	84	25.9	70 - 130	30	r
Benzene	ND	99	89	10.6	113	106	6.4	70 - 130	30	
Bromobenzene	ND	103	92	11.3	114	110	3.6	70 - 130	30	
Bromochloromethane	ND	98	93	5.2	111	105	5.6	70 - 130	30	
Bromodichloromethane	ND	108	97	10.7	116	114	1.7	70 - 130	30	
Bromoform	ND	114	102	11.1	117	115	1.7	70 - 130	30	
Bromomethane	ND	117	93	22.9	78	60	26.1	70 - 130	30	m
Carbon Disulfide	ND	110	93	16.7	94	114	19.2	70 - 130	30	
Carbon tetrachloride	ND	110	96	13.6	124	113	9.3	70 - 130	30	
Chlorobenzene	ND	102	90	12.5	116	110	5.3	70 - 130	30	
Chloroethane	ND	117	100	15.7	52	46	12.2	70 - 130	30	m
Chloroform	ND	102	98	4.0	117	110	6.2	70 - 130	30	
Chloromethane	ND	105	86	19.9	103	99	4.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	106	88	18.6	114	112	1.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	107	96	10.8	114	111	2.7	70 - 130	30	
Dibromochloromethane	ND	112	100	11.3	117	116	0.9	70 - 130	30	
Dibromomethane	ND	103	96	7.0	114	108	5.4	70 - 130	30	
Dichlorodifluoromethane	ND	125	94	28.3	102	99	3.0	70 - 130	30	
Ethylbenzene	ND	100	86	15.1	119	115	3.4	70 - 130	30	
Hexachlorobutadiene	ND	99	67	38.6	132	128	3.1	70 - 130	30	l,m,r
Isopropylbenzene	ND	107	89	18.4	124	116	6.7	70 - 130	30	
m&p-Xylene	ND	101	88	13.8	120	116	3.4	70 - 130	30	
Methyl ethyl ketone	ND	98	90	8.5	106	105	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	107	96	10.8	115	103	11.0	70 - 130	30	
Methylene chloride	ND	103	91	12.4	101	108	6.7	70 - 130	30	
Naphthalene	ND	115	101	13.0	122	118	3.3	70 - 130	30	
n-Butylbenzene	ND	101	72	33.5	127	121	4.8	70 - 130	30	r
n-Propylbenzene	ND	102	83	20.5	121	114	6.0	70 - 130	30	
o-Xylene	ND	107	95	11.9	123	120	2.5	70 - 130	30	
p-Isopropyltoluene	ND	105	81	25.8	129	123	4.8	70 - 130	30	
sec-Butylbenzene	ND	100	78	24.7	123	117	5.0	70 - 130	30	
Styrene	ND	104	90	14.4	121	119	1.7	70 - 130	30	
tert-Butylbenzene	ND	109	90	19.1	126	121	4.0	70 - 130	30	
Tetrachloroethene	ND	101	84	18.4	120	114	5.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	106	99	6.8	115	111	3.5	70 - 130	30	
Toluene	ND	100	87	13.9	114	110	3.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	111	94	16.6	111	114	2.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	108	98	9.7	118	114	3.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	103	92	11.3	108	100	7.7	70 - 130	30	
Trichloroethene	ND	107	96	10.8	118	113	4.3	70 - 130	30	
Trichlorofluoromethane	ND	119	97	20.4	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	110	84	26.8	96	118	20.6	70 - 130	30	
Vinyl chloride	ND	121	102	17.0	119	123	3.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	99	100	1.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	97	105	104	1.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	98	102	101	1.0	99	105	5.9	70 - 130	30	
% Toluene-d8	100	100	99	1.0	99	99	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 255016, QC Sample No: BF45891 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)

Pesticides - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4,4' -DDD	ND	84			102	102	0.0	40 - 140	30	
4,4' -DDE	ND	90			81	81	0.0	40 - 140	30	
4,4' -DDT	ND	89			89	89	0.0	40 - 140	30	
a-BHC	ND	93			86	86	0.0	40 - 140	30	
a-Chlordane	ND	89			82	82	0.0	40 - 140	30	
Alachlor	ND	NA			NA	NA	NC	40 - 140	30	
Aldrin	ND	90			81	81	0.0	40 - 140	30	
b-BHC	ND	91			66	66	0.0	40 - 140	30	
Chlordane	ND	NA			NA	NA	NC	40 - 140	30	
d-BHC	ND	84			74	74	0.0	40 - 140	30	
Dieldrin	ND	91			88	88	0.0	40 - 140	30	
Endosulfan I	ND	90			83	83	0.0	40 - 140	30	
Endosulfan II	ND	86			85	85	0.0	40 - 140	30	
Endosulfan sulfate	ND	86			83	83	0.0	40 - 140	30	
Endrin	ND	105			>130	>130	NC	40 - 140	30	m
Endrin aldehyde	ND	97			83	83	0.0	40 - 140	30	
Endrin ketone	ND	91			77	77	0.0	40 - 140	30	
g-BHC	ND	92			89	89	0.0	40 - 140	30	
g-Chlordane	ND	90			84	84	0.0	40 - 140	30	
Heptachlor	ND	95			>130	>130	NC	40 - 140	30	m
Heptachlor epoxide	ND	88			83	83	0.0	40 - 140	30	
Methoxychlor	ND	95			>130	>130	NC	40 - 140	30	m
Toxaphene	ND	NA			NA	NA	NC	40 - 140	30	
% DCBP	96	88			137	137	0.0	30 - 150	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% TCMX	105	95			89	89	0.0	30 - 150	30	

QA/QC Batch 255015, QC Sample No: BF45891 (BF45890, BF45891, BF45892, BF45893, BF45894, BF45895)

Polychlorinated Biphenyls - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1016	ND	88	89	1.1	100	109	8.6	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	83	84	1.2	91	88	3.4	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	99	97	98	1.0	106	95	10.9	30 - 150	30	
% TCMX (Surrogate Rec)	101	102	102	0.0	107	102	4.8	30 - 150	30	

QA/QC Batch 255749, QC Sample No: BF46096 (BF45891, BF45892, BF45893, BF45894, BF45895)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	95	96	1.0	95	93	2.1	70 - 130	30	
1,1,1-Trichloroethane	ND	94	91	3.2	92	92	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	95	92	3.2	101	89	12.6	70 - 130	30	
1,1,2-Trichloroethane	ND	104	99	4.9	99	90	9.5	70 - 130	30	
1,1-Dichloroethane	ND	95	97	2.1	88	91	3.4	70 - 130	30	
1,1-Dichloroethene	ND	98	98	0.0	73	77	5.3	70 - 130	30	
1,1-Dichloropropene	ND	95	94	1.1	96	96	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	100	101	1.0	101	98	3.0	70 - 130	30	
1,2,3-Trichloropropane	ND	101	89	12.6	97	83	15.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	101	105	3.9	105	103	1.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	97	100	3.0	101	101	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	106	100	5.8	98	82	17.8	70 - 130	30	
1,2-Dibromoethane	ND	102	97	5.0	101	90	11.5	70 - 130	30	
1,2-Dichlorobenzene	ND	95	97	2.1	97	95	2.1	70 - 130	30	
1,2-Dichloroethane	ND	94	89	5.5	92	85	7.9	70 - 130	30	
1,2-Dichloropropane	ND	95	94	1.1	99	94	5.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	95	97	2.1	102	100	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	95	98	3.1	102	97	5.0	70 - 130	30	
1,3-Dichloropropane	ND	96	95	1.0	100	91	9.4	70 - 130	30	
1,4-Dichlorobenzene	ND	95	98	3.1	98	95	3.1	70 - 130	30	
2,2-Dichloropropane	ND	90	93	3.3	81	87	7.1	70 - 130	30	
2-Chlorotoluene	ND	97	98	1.0	102	99	3.0	70 - 130	30	
2-Hexanone	ND	96	94	2.1	96	74	25.9	70 - 130	30	
2-Isopropyltoluene	ND	96	97	1.0	103	100	3.0	70 - 130	30	
4-Chlorotoluene	ND	95	97	2.1	100	98	2.0	70 - 130	30	
4-Methyl-2-pentanone	ND	102	95	7.1	98	79	21.5	70 - 130	30	
Acetone	ND	81	74	9.0	68	54	23.0	70 - 130	30	m
Acrylonitrile	ND	105	92	13.2	94	83	12.4	70 - 130	30	
Benzene	ND	94	94	0.0	97	95	2.1	70 - 130	30	
Bromobenzene	ND	95	96	1.0	100	96	4.1	70 - 130	30	
Bromochloromethane	ND	101	96	5.1	91	94	3.2	70 - 130	30	
Bromodichloromethane	ND	97	96	1.0	94	91	3.2	70 - 130	30	
Bromoform	ND	104	100	3.9	95	84	12.3	70 - 130	30	
Bromomethane	ND	88	122	32.4	37	77	70.2	70 - 130	30	m,r
Carbon Disulfide	ND	92	93	1.1	72	76	5.4	70 - 130	30	
Carbon tetrachloride	ND	97	94	3.1	89	92	3.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlorobenzene	ND	95	98	3.1	100	98	2.0	70 - 130	30	
Chloroethane	ND	97	105	7.9	20	27	29.8	70 - 130	30	m
Chloroform	ND	98	92	6.3	95	90	5.4	70 - 130	30	
Chloromethane	ND	89	107	18.4	86	94	8.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	96	98	2.1	92	90	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	100	96	4.1	100	96	4.1	70 - 130	30	
Dibromochloromethane	ND	97	96	1.0	96	90	6.5	70 - 130	30	
Dibromomethane	ND	98	92	6.3	98	87	11.9	70 - 130	30	
Dichlorodifluoromethane	ND	118	122	3.3	82	83	1.2	70 - 130	30	
Ethylbenzene	ND	94	96	2.1	101	101	0.0	70 - 130	30	
Hexachlorobutadiene	ND	95	98	3.1	108	110	1.8	70 - 130	30	
Isopropylbenzene	ND	100	101	1.0	103	103	0.0	70 - 130	30	
m&p-Xylene	ND	93	97	4.2	100	100	0.0	70 - 130	30	
Methyl ethyl ketone	ND	93	78	17.5	95	69	31.7	70 - 130	30	m,r
Methyl t-butyl ether (MTBE)	ND	96	93	3.2	91	91	0.0	70 - 130	30	
Methylene chloride	ND	92	92	0.0	87	88	1.1	70 - 130	30	
Naphthalene	ND	103	102	1.0	103	93	10.2	70 - 130	30	
n-Butylbenzene	ND	98	103	5.0	106	105	0.9	70 - 130	30	
n-Propylbenzene	ND	98	101	3.0	103	102	1.0	70 - 130	30	
o-Xylene	ND	99	99	0.0	104	100	3.9	70 - 130	30	
p-Isopropyltoluene	ND	99	101	2.0	104	104	0.0	70 - 130	30	
sec-Butylbenzene	ND	93	97	4.2	102	100	2.0	70 - 130	30	
Styrene	ND	95	96	1.0	99	95	4.1	70 - 130	30	
tert-Butylbenzene	ND	98	100	2.0	102	101	1.0	70 - 130	30	
Tetrachloroethene	ND	96	99	3.1	103	103	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	105	91	14.3	103	77	28.9	70 - 130	30	
Toluene	ND	98	96	2.1	99	99	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	97	100	3.0	88	96	8.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	100	96	4.1	98	93	5.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	102	100	2.0	99	84	16.4	70 - 130	30	
Trichloroethene	ND	96	98	2.1	96	95	1.0	70 - 130	30	
Trichlorofluoromethane	ND	99	101	2.0	21	45	72.7	70 - 130	30	m,r
Trichlorotrifluoroethane	ND	102	103	1.0	81	82	1.2	70 - 130	30	
Vinyl chloride	ND	113	114	0.9	93	100	7.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	101	99	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	98	100	99	1.0	102	98	4.0	70 - 130	30	
% Dibromofluoromethane	97	100	96	4.1	97	92	5.3	70 - 130	30	
% Toluene-d8	96	103	100	3.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

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
October 08, 2013

QA/QC Data

SDG I.D.: GBF45890

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Sample Criteria Exceedences Report

GBF45890 - GALLI-ENG

Requested Criteria: 375, 375RS

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45890	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	280	210	210	ug/Kg
BF45890	$8260MAR	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	20	20	ug/Kg
BF45890	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1700	50	50	ug/Kg
BF45890	$8260MAR	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	60	60	ug/Kg
BF45890	$8260MAR	cis-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	250	250	ug/Kg
BF45890	$8260MAR	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	1700	120	120	ug/Kg
BF45890	$8260MAR	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	50	50	ug/Kg
BF45890	$8260MAR	Total Xylenes	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	260	260	ug/Kg
BF45890	$8260MAR	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	190	190	ug/Kg
BF45890	$8260MAR	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	20	20	ug/Kg
BF45890	$8260MAR	1,1-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	280	270	270	ug/Kg
BF45890	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	470	330	330	ug/Kg
BF45890	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	470	330	330	ug/Kg
BF45890	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	470	330	330	ug/Kg
BF45890	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	470	330	330	ug/Kg
BF45890	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	4.9	2.0	3.3	3.3	ug/Kg
BF45890	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.8	5	5	ug/Kg
BF45890	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	17.6	0.34	1	1	mg/Kg
BF45890	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	112	3.4	50	50	mg/kg
BF45890	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	68.2	0.34	63	63	mg/Kg
BF45890	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	227	3.4	109	109	mg/Kg
BF45891	$PEST_SMR	Heptachlor	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	160	11	42	42	ug/Kg
BF45891	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	5.6	5	5	ug/Kg
BF45891	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	3.3	3.3	ug/Kg
BF45891	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Residential	82	5.6	39	39	ug/Kg
BF45891	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	82	5.6	5	5	ug/Kg
BF45891	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	14	14	ug/Kg
BF45891	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	3.3	3.3	ug/Kg
BF45891	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	36	3.3	3.3	ug/Kg
BF45891	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	41.2	0.36	1	1	mg/Kg
BF45891	CU-SM	Copper	NY / 375-6.8 Metals / Residential	393	3.6	270	270	mg/kg
BF45891	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	393	3.6	50	50	mg/kg
BF45891	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	186	3.6	63	63	mg/Kg
BF45891	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	872	3.6	109	109	mg/Kg
BF45892	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	59	50	50	ug/Kg
BF45892	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	1500	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	2000	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2000	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	3800	280	1000	1000	ug/Kg

Requested Criteria: 375, 375RS

State: NY

Sample Criteria Exceedences Report

GBF45890 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45892	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3800	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1300	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	280	800	800	ug/Kg
BF45892	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	1300	280	1000	1000	ug/Kg
BF45892	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1300	280	1000	1000	ug/Kg
BF45892	$PEST_SMR	a-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	38	20	20	ug/Kg
BF45892	$PEST_SMR	b-BHC	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	38	36	36	ug/Kg
BF45892	$PEST_SMR	Heptachlor	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	320	24	42	42	ug/Kg
BF45892	$PEST_SMR	Aldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	12	5	5	ug/Kg
BF45892	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	76	3.3	3.3	ug/Kg
BF45892	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	12	5	5	ug/Kg
BF45892	$PEST_SMR	Endrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	76	14	14	ug/Kg
BF45892	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	76	3.3	3.3	ug/Kg
BF45892	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	76	3.3	3.3	ug/Kg
BF45892	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	46.0	0.38	1	1	mg/Kg
BF45892	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	261	3.8	50	50	mg/kg
BF45892	PB-SM	Lead	NY / 375-6.8 Metals / Residential	669	3.8	400	400	mg/Kg
BF45892	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	669	3.8	63	63	mg/Kg
BF45892	ZN-SM	Zinc	NY / 375-6.8 Metals / Residential	6060	38	2200	2200	mg/Kg
BF45892	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	6060	38	109	109	mg/Kg
BF45893	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	71	50	50	ug/Kg
BF45893	$8270-SMR	Phenol	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	340	330	330	ug/Kg
BF45893	$8270-SMR	2-Methylphenol (o-cresol)	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	340	330	330	ug/Kg
BF45893	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1400	340	1000	1000	ug/Kg
BF45893	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1400	340	1000	1000	ug/Kg
BF45893	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	ND	340	330	330	ug/Kg
BF45893	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	ND	340	330	330	ug/Kg
BF45893	$PCB_SMR	PCB-1260	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	110	97	100	100	ug/Kg
BF45893	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	13	2.9	3.3	3.3	ug/Kg
BF45893	$PEST_SMR	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	6.8	5	5	ug/Kg
BF45893	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	63	2.9	3.3	3.3	ug/Kg
BF45893	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.67	0.48	2.5	2.5	mg/Kg
BF45893	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.67	0.48	2.5	2.5	mg/Kg
BF45893	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	37.3	0.48	1	1	mg/Kg
BF45893	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	109	4.8	50	50	mg/kg
BF45893	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.27	0.10	0.18	0.18	mg/Kg
BF45893	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	36.0	0.48	30	30	mg/Kg
BF45893	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	311	4.8	63	63	mg/Kg
BF45893	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	261	4.8	109	109	mg/Kg
BF45894	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	120	50	50	ug/Kg

Requested Criteria: 375, 375RS

State: NY

Sample Criteria Exceedences Report

GBF45890 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45894	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	1200	300	1000	1000	ug/Kg
BF45894	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1200	300	1000	1000	ug/Kg
BF45894	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2200	300	1000	1000	ug/Kg
BF45894	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2200	300	1000	1000	ug/Kg
BF45894	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	16	8.0	3.3	3.3	ug/Kg
BF45894	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.6	8.0	3.3	3.3	ug/Kg
BF45894	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	32	8.0	3.3	3.3	ug/Kg
BF45894	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	2.65	0.45	2.5	2.5	mg/Kg
BF45894	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	2.65	0.45	2.5	2.5	mg/Kg
BF45894	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	36.8	0.45	1	1	mg/Kg
BF45894	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	123	4.5	50	50	mg/kg
BF45894	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.47	0.10	0.18	0.18	mg/Kg
BF45894	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	32.8	0.45	30	30	mg/Kg
BF45894	PB-SM	Lead	NY / 375-6.8 Metals / Residential	403	4.5	400	400	mg/Kg
BF45894	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	403	4.5	63	63	mg/Kg
BF45894	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	247	4.5	109	109	mg/Kg
BF45895	$8260MAR	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	69	50	50	ug/Kg
BF45895	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	1500	300	1000	1000	ug/Kg
BF45895	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1500	300	1000	1000	ug/Kg
BF45895	$PEST_SMR	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	14	8.4	3.3	3.3	ug/Kg
BF45895	$PEST_SMR	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	ND*	4.4	3.3	3.3	ug/Kg
BF45895	$PEST_SMR	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	37	8.4	3.3	3.3	ug/Kg
BF45895	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	30.1	0.47	1	1	mg/Kg
BF45895	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	82.2	0.47	50	50	mg/kg
BF45895	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.22	0.09	0.18	0.18	mg/Kg
BF45895	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	223	4.7	63	63	mg/Kg
BF45895	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	161	4.7	109	109	mg/Kg

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

NY # 11301

NY Temperature Narration

October 08, 2013

SDG I.D.: GBF45890

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

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX *Environmental Laboratories, Inc.*

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

Temp 4°C 4WC+JP Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: MGREMILLION@GALLEEng.Com

Customer: GALLI ENG
Address: MELVILLE, N.Y.

Project: LARCHMONT
Report to: M. GREMILLION
Invoice to: L. LA SANTA

Project P.O:
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 9/25/13

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

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260	8270	TAL METALS	PCB'S	PEST	HERB	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
45890	SC-1	SOIL	9/25/13	10:30	X	X	X	X	X	X	3	1								4
45891	SC-2	↓	↓	11:00	X	X	X	X	X	X	↓	↓								↓
45892	SC-3	↓	↓	10:45	X	X	X	X	X	X	↓	↓								↓
45893	RC-1	↓	↓	12:10	X	X	X	X	X	X	↓	↓								↓
45894	RC-2	↓	↓	12:20	X	X	X	X	X	X	↓	↓								↓
45895	RC-3	↓	↓	12:30	X	X	X	X	X	X	↓	↓								↓

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	9-26-13	10:10 A
[signature]	[signature]	9-26-13	16:02

Comments, Special Requirements or Regulations:

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

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

NY
☐ TOGS GA GW
☐ CP-51 Soil
☒ NY375 Unrestricted Soil
☒ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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

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

State where samples were collected: NY

PHOENIX
Environmental Laboratories, Inc.

Friday, October 04, 2013

Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Project ID: LARCHMONT
Sample ID#s: BF45881 - BF45884

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

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

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

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

Sincerely yours,

Phyllis Shiller

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

PHOENIX

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

NY # 11301

Analysis Report

October 04, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MG	09/25/13	9:30
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45881
Phoenix ID: BF45881

Project ID: LARCHMONT
Client ID: TW-B-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	09/27/13	LK	SW6010	
Aluminum	149	0.10	mg/L	10/01/13	LK	SW6010	
Arsenic	0.011	0.004	mg/L	09/27/13	LK	SW6010	
Barium	1.40	0.002	mg/L	09/27/13	LK	SW6010	
Beryllium	0.005	0.001	mg/L	09/27/13	LK	SW6010	
Calcium	54.7	0.010	mg/L	09/27/13	LK	SW6010	
Cadmium	0.011	0.001	mg/L	09/27/13	LK	SW6010	
Cobalt	0.189	0.002	mg/L	09/27/13	LK	SW6010	
Chromium	0.401	0.001	mg/L	09/27/13	LK	SW6010	
Copper	0.740	0.005	mg/L	09/27/13	LK	SW6010	
Silver (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Aluminum (Dissolved)	0.31	0.01	mg/L	09/27/13	EK	SW6010	
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/27/13	EK	SW6010	
Barium (Dissolved)	0.097	0.002	mg/L	09/27/13	EK	SW6010	
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Calcium (Dissolved)	42.6	0.01	mg/L	09/27/13	EK	SW6010	
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Cobalt (Dissolved)	0.012	0.001	mg/L	09/27/13	EK	SW6010	
Chromium (Dissolved)	0.001	0.001	mg/L	09/27/13	EK	SW6010	
Copper (Dissolved)	< 0.005	0.005	mg/L	09/27/13	EK	SW6010	
Iron (Dissolved)	0.332	0.011	mg/L	09/27/13	EK	SW6010	
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium (Dissolved)	10.7	0.1	mg/L	09/27/13	EK	SW6010	B
Magnesium (Dissolved)	10.8	0.01	mg/L	09/27/13	EK	SW6010	
Manganese (Dissolved)	3.56	0.011	mg/L	10/02/13	LK	SW6010	
Sodium (Dissolved)	135	1.1	mg/L	10/02/13	LK	SW6010	B
Nickel (Dissolved)	0.012	0.001	mg/L	09/27/13	EK	SW6010	
Lead (Dissolved)	< 0.002	0.002	mg/L	09/27/13	EK	SW6010	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/27/13	EK	SW6010	
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/27/13	EK	SW6010	
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/30/13	RS/TH	SW7010	
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/27/13	EK	SW6010	
Zinc (Dissolved)	0.002	0.002	mg/L	09/27/13	EK	SW6010	
Iron	385	0.10	mg/L	10/01/13	LK	SW6010	
Mercury	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium	74.6	1.0	mg/L	10/01/13	LK	SW6010	
Magnesium	67.8	0.01	mg/L	09/27/13	LK	SW6010	
Manganese	10.9	0.010	mg/L	10/01/13	LK	SW6010	
Sodium	110	0.1	mg/L	09/27/13	LK	SW6010	
Nickel	0.325	0.001	mg/L	09/27/13	LK	SW6010	
Lead	0.114	0.002	mg/L	09/27/13	LK	SW6010	
Antimony	< 0.005	0.005	mg/L	09/27/13	LK	SW6010	
Selenium	< 0.010	0.010	mg/L	10/01/13	LK	SW6010	
Thallium	< 0.002	0.002	mg/L	09/30/13	RS/TH	SM3113B/SW70	
Vanadium	0.495	0.002	mg/L	09/27/13	LK	SW6010	
Zinc	0.602	0.002	mg/L	09/27/13	LK	SW6010	
Filtration	Completed			09/26/13	Z/Z	0.45um Filter	
Dissolved Mercury Digestion	Completed			09/27/13	I/I	SW7470	
Mercury Digestion	Completed			09/27/13	I/I	SW7470	
PCB Extraction	Completed			09/26/13	T	SW3510C	
Extraction for Pest (2 Liter)	Completed			09/26/13	T	SW3510	
Semi-Volatile Extraction	Completed			09/26/13	E/X/K/D	SW3520	
Dissolved Metals Preparation	Completed			09/26/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed			09/26/13	AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1221	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1232	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1242	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1248	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1254	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1260	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1262	ND	0.056	ug/L	09/27/13	AW	8082	
PCB-1268	ND	0.056	ug/L	09/27/13	AW	8082	
QA/QC Surrogates							
% DCBP	89		%	09/27/13	AW	30 - 150 %	
% TCMX	69		%	09/27/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.010	ug/L	10/01/13	MH	SW8081	
4,4' -DDE	ND	0.010	ug/L	10/01/13	MH	SW8081	
4,4' -DDT	ND	0.010	ug/L	10/01/13	MH	SW8081	
a-BHC	ND	0.010	ug/L	10/01/13	MH	SW8081	
Alachlor	ND	0.083	ug/L	10/01/13	MH	SW8081	1
Aldrin	ND	0.003	ug/L	10/01/13	MH	SW8081	
b-BHC	ND	0.006	ug/L	10/01/13	MH	SW8081	
Chlordane	0.65	0.33	ug/L	10/01/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
d-BHC	ND	0.028	ug/L	10/01/13	MH	SW8081	
Dieldrin	ND	0.002	ug/L	10/01/13	MH	SW8081	
Endosulfan I	ND	0.056	ug/L	10/01/13	MH	SW8081	
Endosulfan II	ND	0.056	ug/L	10/01/13	MH	SW8081	
Endosulfan Sulfate	ND	0.056	ug/L	10/01/13	MH	SW8081	
Endrin	ND	0.010	ug/L	10/01/13	MH	SW8081	
Endrin Aldehyde	ND	0.056	ug/L	10/01/13	MH	SW8081	
Endrin ketone	ND	0.056	ug/L	10/01/13	MH	SW8081	
g-BHC (Lindane)	ND	0.028	ug/L	10/01/13	MH	SW8081	
Heptachlor	ND	0.010	ug/L	10/01/13	MH	SW8081	
Heptachlor epoxide	ND	0.010	ug/L	10/01/13	MH	SW8081	
Methoxychlor	ND	0.11	ug/L	10/01/13	MH	SW8081	
Toxaphene	ND	0.28	ug/L	10/01/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Interference		%	10/01/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	97		%	10/01/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Acetone	ND	25	ug/L	09/27/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	09/27/13	HM	SW8260	
Benzene	ND	0.70	ug/L	09/27/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	2.8	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	09/27/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Styrene	ND	1.0	ug/L	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Tetrachloroethene	23	1.0	ug/L	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	09/27/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Total Xylenes	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/27/13	HM	SW8260	
Trichloroethene	2.3	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	98		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	102		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	101		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	09/29/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	09/29/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/29/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/29/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	09/29/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	09/29/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	09/29/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	09/29/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	09/29/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	09/29/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	09/29/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	09/29/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	09/29/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/29/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	09/29/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	09/29/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/29/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	09/29/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	09/29/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	09/29/13	DD	SW8270
Aniline	ND	10	ug/L	09/29/13	DD	SW8270
Anthracene	ND	5.0	ug/L	09/29/13	DD	SW8270
Benzidine	ND	50	ug/L	09/29/13	DD	SW8270
Benzoic acid	ND	50	ug/L	09/29/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/29/13	DD	SW8270
Carbazole	ND	5.0	ug/L	09/29/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	09/29/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	09/29/13	DD	SW8270
Fluorene	ND	5.0	ug/L	09/29/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	09/29/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/29/13	DD	SW8270
Isophorone	ND	5.0	ug/L	09/29/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	09/29/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
Phenol	ND	5.0	ug/L	09/29/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.0	ug/L	09/29/13	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	109		%	09/29/13	DD	15 - 130 %
% 2-Fluorobiphenyl	97		%	09/29/13	DD	30 - 130 %
% 2-Fluorophenol	70		%	09/29/13	DD	15 - 130 %
% Nitrobenzene-d5	108		%	09/29/13	DD	30 - 130 %
% Phenol-d5	67		%	09/29/13	DD	15 - 130 %
% Terphenyl-d14	103		%	09/29/13	DD	30 - 130 %

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.040	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	09/27/13	DD	SW8270 (SIM)
Chrysene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	09/27/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	09/27/13	DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	09/27/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	109		%	09/27/13	DD	15 - 130 %
% 2-Fluorobiphenyl	97		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	70		%	09/27/13	DD	15 - 130 %
% Nitrobenzene-d5	108		%	09/27/13	DD	30 - 130 %
% Phenol-d5	67		%	09/27/13	DD	15 - 130 %
% Terphenyl-d14	103		%	09/27/13	DD	30 - 130 %

Project ID: LARCHMONT
Client ID: TW-B-10

Phoenix I.D.: BF45881

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

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

Comments:

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

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

Phyllis Shiller, Laboratory Director
October 04, 2013
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

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

NY # 11301

Analysis Report

October 04, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MG	09/25/13	9:45
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45881
Phoenix ID: BF45882

Project ID: LARCHMONT
Client ID: TW-B-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.002	0.002	mg/L	09/27/13	LK	SW6010	
Aluminum	166	0.10	mg/L	10/01/13	LK	SW6010	
Arsenic	0.018	0.004	mg/L	09/27/13	LK	SW6010	
Barium	2.90	0.002	mg/L	09/27/13	LK	SW6010	
Beryllium	0.009	0.001	mg/L	09/27/13	LK	SW6010	
Calcium	205	0.10	mg/L	10/01/13	LK	SW6010	
Cadmium	0.013	0.001	mg/L	09/27/13	LK	SW6010	
Cobalt	0.478	0.002	mg/L	09/27/13	LK	SW6010	
Chromium	0.471	0.001	mg/L	09/27/13	LK	SW6010	
Copper	0.912	0.005	mg/L	09/27/13	LK	SW6010	
Silver (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Aluminum (Dissolved)	2.09	0.01	mg/L	09/27/13	EK	SW6010	
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/27/13	EK	SW6010	
Barium (Dissolved)	0.081	0.002	mg/L	09/27/13	EK	SW6010	
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Calcium (Dissolved)	76.8	0.01	mg/L	09/27/13	EK	SW6010	
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Cobalt (Dissolved)	0.003	0.001	mg/L	09/27/13	EK	SW6010	
Chromium (Dissolved)	0.005	0.001	mg/L	09/27/13	EK	SW6010	
Copper (Dissolved)	0.008	0.005	mg/L	09/27/13	EK	SW6010	
Iron (Dissolved)	3.20	0.011	mg/L	09/27/13	EK	SW6010	
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium (Dissolved)	12.9	0.1	mg/L	09/27/13	EK	SW6010	B
Magnesium (Dissolved)	14.1	0.01	mg/L	09/27/13	EK	SW6010	
Manganese (Dissolved)	0.435	0.001	mg/L	09/27/13	EK	SW6010	
Sodium (Dissolved)	191	1.1	mg/L	10/02/13	LK	SW6010	B
Nickel (Dissolved)	0.006	0.001	mg/L	09/27/13	EK	SW6010	
Lead (Dissolved)	< 0.002	0.002	mg/L	09/27/13	EK	SW6010	

Project ID: LARCHMONT
Client ID: TW-B-6

Phoenix I.D.: BF45882

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/27/13	EK	SW6010	
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/27/13	EK	SW6010	
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/30/13	RS/TH	SW7010	
Vanadium (Dissolved)	0.008	0.002	mg/L	09/27/13	EK	SW6010	
Zinc (Dissolved)	0.010	0.002	mg/L	09/27/13	EK	SW6010	
Iron	428	0.10	mg/L	10/01/13	LK	SW6010	
Mercury	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium	96.8	1.0	mg/L	10/01/13	LK	SW6010	
Magnesium	115	0.10	mg/L	10/01/13	LK	SW6010	
Manganese	32.7	0.10	mg/L	10/02/13	LK	SW6010	
Sodium	154	0.1	mg/L	09/27/13	LK	SW6010	
Nickel	0.586	0.001	mg/L	09/27/13	LK	SW6010	
Lead	0.090	0.002	mg/L	09/27/13	LK	SW6010	
Antimony	< 0.005	0.005	mg/L	09/27/13	LK	SW6010	
Selenium	< 0.010	0.010	mg/L	10/01/13	LK	SW6010	
Thallium	< 0.002	0.002	mg/L	10/01/13	RS/TH	SM3113B/SW70	
Vanadium	0.486	0.002	mg/L	09/27/13	LK	SW6010	
Zinc	0.822	0.002	mg/L	09/27/13	LK	SW6010	
Filtration	Completed			09/26/13	Z/Z	0.45um Filter	
Dissolved Mercury Digestion	Completed			09/27/13	I/I	SW7470	
Mercury Digestion	Completed			09/27/13	I/I	SW7470	
PCB Extraction	Completed			09/26/13	T	SW3510C	
Extraction for Pest (2 Liter)	Completed			09/26/13	T	SW3510	
Semi-Volatile Extraction	Completed			09/26/13	E/X/K/D	SW3520	
Dissolved Metals Preparation	Completed			09/26/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed			09/26/13	AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1221	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1232	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1242	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1248	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1254	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1260	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1262	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1268	ND	0.050	ug/L	09/27/13	AW	8082	
QA/QC Surrogates							
% DCBP	146		%	09/27/13	AW	30 - 150 %	
% TCMX	95		%	09/27/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND*	0.50	ug/L	09/27/13	MH	SW8081	
4,4' -DDE	ND*	0.50	ug/L	09/27/13	MH	SW8081	
4,4' -DDT	ND*	0.50	ug/L	09/27/13	MH	SW8081	
a-BHC	ND*	0.25	ug/L	09/27/13	MH	SW8081	
Alachlor	ND*	0.75	ug/L	09/27/13	MH	SW8081	1
Aldrin	ND*	0.015	ug/L	09/27/13	MH	SW8081	
b-BHC	ND*	0.050	ug/L	09/27/13	MH	SW8081	
Chlordane	0.29	0.20	ug/L	09/27/13	MH	SW8081	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
d-BHC	ND*	0.25	ug/L	09/27/13	MH	SW8081	
Dieldrin	ND*	0.015	ug/L	09/27/13	MH	SW8081	
Endosulfan I	ND*	0.50	ug/L	09/27/13	MH	SW8081	
Endosulfan II	ND*	0.50	ug/L	09/27/13	MH	SW8081	
Endosulfan Sulfate	ND*	0.50	ug/L	09/27/13	MH	SW8081	
Endrin	ND*	0.50	ug/L	09/27/13	MH	SW8081	
Endrin Aldehyde	ND*	0.50	ug/L	09/27/13	MH	SW8081	
Endrin ketone	ND*	0.50	ug/L	09/27/13	MH	SW8081	
g-BHC (Lindane)	ND*	0.25	ug/L	09/27/13	MH	SW8081	
Heptachlor	ND*	0.25	ug/L	09/27/13	MH	SW8081	
Heptachlor epoxide	ND*	0.25	ug/L	09/27/13	MH	SW8081	
Methoxychlor	ND*	1.0	ug/L	09/27/13	MH	SW8081	
Toxaphene	ND*	10	ug/L	09/27/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Diluted Out		%	09/27/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out		%	09/27/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/28/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2,4-Trimethylbenzene	9.2	1.0	ug/L	09/28/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	09/28/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,3,5-Trimethylbenzene	5.8	1.0	ug/L	09/28/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	09/28/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	09/28/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	09/28/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	09/28/13	HM	SW8260	
2-Isopropyltoluene	1.0	1.0	ug/L	09/28/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	09/28/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	09/28/13	HM	SW8260	
Acetone	ND	25	ug/L	09/28/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	09/28/13	HM	SW8260	
Benzene	ND	0.70	ug/L	09/28/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	09/28/13	HM	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	09/28/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	09/28/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	09/28/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Chloroform	ND	1.0	ug/L	09/28/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/28/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/28/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	09/28/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Ethylbenzene	5.8	1.0	ug/L	09/28/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	09/28/13	HM	SW8260	
Isopropylbenzene	4.7	1.0	ug/L	09/28/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	09/28/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/28/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	09/28/13	HM	SW8260	
Naphthalene	29	1.0	ug/L	09/28/13	HM	SW8260	
n-Butylbenzene	3.0	1.0	ug/L	09/28/13	HM	SW8260	
n-Propylbenzene	6.5	1.0	ug/L	09/28/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	09/28/13	HM	SW8260	
p-Isopropyltoluene	1.6	1.0	ug/L	09/28/13	HM	SW8260	
sec-Butylbenzene	5.0	1.0	ug/L	09/28/13	HM	SW8260	
Styrene	ND	1.0	ug/L	09/28/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Tetrachloroethene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	09/28/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Total Xylenes	ND	1.0	ug/L	09/28/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/28/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/28/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/28/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	09/28/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	09/28/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	09/28/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	09/28/13	HM	70 - 130 %	
% Bromofluorobenzene	100		%	09/28/13	HM	70 - 130 %	
% Dibromofluoromethane	99		%	09/28/13	HM	70 - 130 %	
% Toluene-d8	103		%	09/28/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	09/29/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	09/29/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	09/29/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	09/29/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	09/29/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	09/29/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	09/29/13	DD	SW8270
2-Methylnaphthalene	33	5.0	ug/L	09/29/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	09/29/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	09/29/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	09/29/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	09/29/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	09/29/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	09/29/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	09/29/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	09/29/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	09/29/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	09/29/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	09/29/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	09/29/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	09/29/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	09/29/13	DD	SW8270
Aniline	ND	10	ug/L	09/29/13	DD	SW8270
Anthracene	ND	5.0	ug/L	09/29/13	DD	SW8270
Benzidine	ND	50	ug/L	09/29/13	DD	SW8270
Benzoic acid	ND	50	ug/L	09/29/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	09/29/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	09/29/13	DD	SW8270
Carbazole	ND	5.0	ug/L	09/29/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	09/29/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	09/29/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	09/29/13	DD	SW8270
Fluorene	ND	5.0	ug/L	09/29/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	09/29/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	09/29/13	DD	SW8270
Isophorone	ND	5.0	ug/L	09/29/13	DD	SW8270
Naphthalene	8.8	5.0	ug/L	09/29/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	09/29/13	DD	SW8270
Phenol	ND	5.0	ug/L	09/29/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.0	ug/L	09/29/13	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	102		%	09/29/13	DD	15 - 130 %
% 2-Fluorobiphenyl	81		%	09/29/13	DD	30 - 130 %
% 2-Fluorophenol	76		%	09/29/13	DD	15 - 130 %
% Nitrobenzene-d5	105		%	09/29/13	DD	30 - 130 %
% Phenol-d5	71		%	09/29/13	DD	15 - 130 %
% Terphenyl-d14	110		%	09/29/13	DD	30 - 130 %
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthene	2.8	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthylene	0.58	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.07	0.040	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	09/27/13	DD	SW8270 (SIM)
Chrysene	0.06	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.060	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	09/27/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.80	ug/L	09/27/13	DD	SW8270 (SIM)
Phenanthrene	7.2	0.050	ug/L	09/27/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	09/27/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	102		%	09/27/13	DD	15 - 130 %
% 2-Fluorobiphenyl	81		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	76		%	09/27/13	DD	15 - 130 %
% Nitrobenzene-d5	105		%	09/27/13	DD	30 - 130 %
% Phenol-d5	71		%	09/27/13	DD	15 - 130 %
% Terphenyl-d14	110		%	09/27/13	DD	30 - 130 %

Project ID: LARCHMONT
Client ID: TW-B-6

Phoenix I.D.: BF45882

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

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

Comments:

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

* 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
October 04, 2013
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

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

Analysis Report

October 04, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MG	09/25/13	11:30
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45881
Phoenix ID: BF45883

Project ID: LARCHMONT
Client ID: TW-B-8

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	09/27/13	LK	SW6010	
Aluminum	14.3	0.010	mg/L	09/27/13	LK	SW6010	
Arsenic	< 0.004	0.004	mg/L	09/27/13	LK	SW6010	
Barium	0.220	0.002	mg/L	09/27/13	LK	SW6010	
Beryllium	< 0.001	0.001	mg/L	09/27/13	LK	SW6010	
Calcium	52.6	0.010	mg/L	09/27/13	LK	SW6010	
Cadmium	< 0.001	0.001	mg/L	09/27/13	LK	SW6010	
Cobalt	0.017	0.002	mg/L	09/27/13	LK	SW6010	
Chromium	0.054	0.001	mg/L	09/27/13	LK	SW6010	
Copper	0.043	0.005	mg/L	09/27/13	LK	SW6010	
Silver (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Aluminum (Dissolved)	0.71	0.01	mg/L	09/27/13	EK	SW6010	
Arsenic (Dissolved)	< 0.004	0.004	mg/L	09/27/13	EK	SW6010	
Barium (Dissolved)	0.086	0.002	mg/L	09/27/13	EK	SW6010	
Beryllium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Calcium (Dissolved)	53.7	0.01	mg/L	09/27/13	EK	SW6010	
Cadmium (Dissolved)	< 0.001	0.001	mg/L	09/27/13	EK	SW6010	
Cobalt (Dissolved)	0.005	0.001	mg/L	09/27/13	EK	SW6010	
Chromium (Dissolved)	0.003	0.001	mg/L	09/27/13	EK	SW6010	
Copper (Dissolved)	< 0.005	0.005	mg/L	09/27/13	EK	SW6010	
Iron (Dissolved)	0.945	0.011	mg/L	09/27/13	EK	SW6010	
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium (Dissolved)	11.5	0.1	mg/L	09/27/13	EK	SW6010	B
Magnesium (Dissolved)	14.7	0.01	mg/L	09/27/13	EK	SW6010	
Manganese (Dissolved)	2.21	0.011	mg/L	10/02/13	LK	SW6010	
Sodium (Dissolved)	65.9	1.1	mg/L	10/02/13	LK	SW6010	B
Nickel (Dissolved)	0.012	0.001	mg/L	09/27/13	EK	SW6010	
Lead (Dissolved)	< 0.002	0.002	mg/L	09/27/13	EK	SW6010	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Antimony (Dissolved)	< 0.005	0.005	mg/L	09/27/13	EK	SW6010	
Selenium (Dissolved)	< 0.011	0.011	mg/L	09/27/13	EK	SW6010	
Thallium (Dissolved)	< 0.002	0.002	mg/L	09/30/13	RS/TH	SW7010	
Vanadium (Dissolved)	< 0.002	0.002	mg/L	09/27/13	EK	SW6010	
Zinc (Dissolved)	0.004	0.002	mg/L	09/27/13	EK	SW6010	
Iron	23.0	0.010	mg/L	09/27/13	LK	SW6010	
Mercury	< 0.0002	0.0002	mg/L	09/27/13	RS	SW7470	
Potassium	18.1	0.1	mg/L	09/27/13	LK	SW6010	
Magnesium	19.6	0.01	mg/L	09/27/13	LK	SW6010	
Manganese	2.14	0.010	mg/L	10/02/13	LK	SW6010	
Sodium	73.7	0.1	mg/L	09/27/13	LK	SW6010	
Nickel	0.039	0.001	mg/L	09/27/13	LK	SW6010	
Lead	0.006	0.002	mg/L	09/27/13	LK	SW6010	
Antimony	< 0.005	0.005	mg/L	09/27/13	LK	SW6010	
Selenium	< 0.010	0.010	mg/L	09/27/13	LK	SW6010	
Thallium	< 0.002	0.002	mg/L	10/01/13	RS/TH	SM3113B/SW70	
Vanadium	0.037	0.002	mg/L	09/27/13	LK	SW6010	
Zinc	0.059	0.002	mg/L	09/27/13	LK	SW6010	
Filtration	Completed			09/26/13	Z/Z	0.45um Filter	
Dissolved Mercury Digestion	Completed			09/27/13	I/I	SW7470	
Mercury Digestion	Completed			09/27/13	I/I	SW7470	
PCB Extraction	Completed			09/26/13	T	SW3510C	
Extraction for Pest (2 Liter)	Completed			09/26/13	T	SW3510	
Semi-Volatile Extraction	Completed			09/26/13	E/X/K/D	SW3520	
Dissolved Metals Preparation	Completed			09/26/13	Z/Z	SW846-3005	
Total Metals Digestion	Completed			09/26/13	AG	SW846 - 3050	

Polychlorinated Biphenyls

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
PCB-1016	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1221	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1232	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1242	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1248	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1254	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1260	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1262	ND	0.050	ug/L	09/27/13	AW	8082	
PCB-1268	ND	0.050	ug/L	09/27/13	AW	8082	
QA/QC Surrogates							
% DCBP	93		%	09/27/13	AW	30 - 150 %	
% TCMX	68		%	09/27/13	AW	30 - 150 %	

Pesticides

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4,4' -DDD	ND	0.010	ug/L	10/01/13	MH	SW8081	
4,4' -DDE	ND	0.010	ug/L	10/01/13	MH	SW8081	
4,4' -DDT	ND	0.010	ug/L	10/01/13	MH	SW8081	
a-BHC	ND	0.010	ug/L	10/01/13	MH	SW8081	
Alachlor	ND	0.075	ug/L	10/01/13	MH	SW8081	1
Aldrin	ND	0.002	ug/L	10/01/13	MH	SW8081	
b-BHC	ND	0.005	ug/L	10/01/13	MH	SW8081	
Chlordane	ND	0.050	ug/L	10/01/13	MH	SW8081	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
d-BHC	ND	0.025	ug/L	10/01/13	MH	SW8081	
Dieldrin	ND	0.002	ug/L	10/01/13	MH	SW8081	
Endosulfan I	ND	0.050	ug/L	10/01/13	MH	SW8081	
Endosulfan II	ND	0.050	ug/L	10/01/13	MH	SW8081	
Endosulfan Sulfate	ND	0.050	ug/L	10/01/13	MH	SW8081	
Endrin	ND	0.010	ug/L	10/01/13	MH	SW8081	
Endrin Aldehyde	ND	0.050	ug/L	10/01/13	MH	SW8081	
Endrin ketone	ND	0.050	ug/L	10/01/13	MH	SW8081	
g-BHC (Lindane)	ND	0.025	ug/L	10/01/13	MH	SW8081	
Heptachlor	ND	0.010	ug/L	10/01/13	MH	SW8081	
Heptachlor epoxide	ND	0.010	ug/L	10/01/13	MH	SW8081	
Methoxychlor	ND	0.10	ug/L	10/01/13	MH	SW8081	
Toxaphene	ND	0.25	ug/L	10/01/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	122		%	10/01/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	81		%	10/01/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Acetone	ND	25	ug/L	09/27/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	09/27/13	HM	SW8260	
Benzene	ND	0.70	ug/L	09/27/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	09/27/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Styrene	ND	1.0	ug/L	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Tetrachloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	09/27/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Total Xylenes	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/27/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	99		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	103		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	101		%	09/27/13	HM	70 - 130 %	

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	5.3	ug/L	09/29/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.3	ug/L	09/29/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.3	ug/L	09/29/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.3	ug/L	09/29/13	DD	SW8270

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	5.3	ug/L	09/29/13	DD	SW8270
2,4,5-Trichlorophenol	ND	11	ug/L	09/29/13	DD	SW8270
2,4,6-Trichlorophenol	ND	11	ug/L	09/29/13	DD	SW8270
2,4-Dichlorophenol	ND	11	ug/L	09/29/13	DD	SW8270
2,4-Dimethylphenol	ND	11	ug/L	09/29/13	DD	SW8270
2,4-Dinitrophenol	ND	53	ug/L	09/29/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.3	ug/L	09/29/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.3	ug/L	09/29/13	DD	SW8270
2-Chloronaphthalene	ND	5.3	ug/L	09/29/13	DD	SW8270
2-Chlorophenol	ND	11	ug/L	09/29/13	DD	SW8270
2-Methylnaphthalene	ND	5.3	ug/L	09/29/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	11	ug/L	09/29/13	DD	SW8270
2-Nitroaniline	ND	53	ug/L	09/29/13	DD	SW8270
2-Nitrophenol	ND	11	ug/L	09/29/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	09/29/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	53	ug/L	09/29/13	DD	SW8270
3-Nitroaniline	ND	53	ug/L	09/29/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	53	ug/L	09/29/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.3	ug/L	09/29/13	DD	SW8270
4-Chloro-3-methylphenol	ND	21	ug/L	09/29/13	DD	SW8270
4-Chloroaniline	ND	21	ug/L	09/29/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.3	ug/L	09/29/13	DD	SW8270
4-Nitroaniline	ND	21	ug/L	09/29/13	DD	SW8270
4-Nitrophenol	ND	53	ug/L	09/29/13	DD	SW8270
Acetophenone	ND	5.3	ug/L	09/29/13	DD	SW8270
Aniline	ND	11	ug/L	09/29/13	DD	SW8270
Anthracene	ND	5.3	ug/L	09/29/13	DD	SW8270
Benzidine	ND	53	ug/L	09/29/13	DD	SW8270
Benzoic acid	ND	53	ug/L	09/29/13	DD	SW8270
Benzyl butyl phthalate	ND	5.3	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.3	ug/L	09/29/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.3	ug/L	09/29/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.3	ug/L	09/29/13	DD	SW8270
Carbazole	ND	5.3	ug/L	09/29/13	DD	SW8270
Dibenzofuran	ND	5.3	ug/L	09/29/13	DD	SW8270
Diethyl phthalate	ND	5.3	ug/L	09/29/13	DD	SW8270
Dimethylphthalate	ND	5.3	ug/L	09/29/13	DD	SW8270
Di-n-butylphthalate	ND	5.3	ug/L	09/29/13	DD	SW8270
Di-n-octylphthalate	ND	5.3	ug/L	09/29/13	DD	SW8270
Fluoranthene	ND	5.3	ug/L	09/29/13	DD	SW8270
Fluorene	ND	5.3	ug/L	09/29/13	DD	SW8270
Hexachlorobutadiene	ND	5.3	ug/L	09/29/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.3	ug/L	09/29/13	DD	SW8270
Isophorone	ND	5.3	ug/L	09/29/13	DD	SW8270
Naphthalene	ND	5.3	ug/L	09/29/13	DD	SW8270
Nitrobenzene	ND	5.3	ug/L	09/29/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.3	ug/L	09/29/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.3	ug/L	09/29/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.3	ug/L	09/29/13	DD	SW8270
Phenol	ND	5.3	ug/L	09/29/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pyrene	ND	5.3	ug/L	09/29/13	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	116		%	09/29/13	DD	15 - 130 %
% 2-Fluorobiphenyl	96		%	09/29/13	DD	30 - 130 %
% 2-Fluorophenol	79		%	09/29/13	DD	15 - 130 %
% Nitrobenzene-d5	106		%	09/29/13	DD	30 - 130 %
% Phenol-d5	79		%	09/29/13	DD	15 - 130 %
% Terphenyl-d14	99		%	09/29/13	DD	30 - 130 %

Semivolatiles

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2,4,5-Tetrachlorobenzene	ND	1.7	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Benz(a)anthracene	ND	0.042	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.2	ug/L	09/27/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.7	ug/L	09/27/13	DD	SW8270 (SIM)
Chrysene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.011	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.063	ug/L	09/27/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.5	ug/L	09/27/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.11	ug/L	09/27/13	DD	SW8270 (SIM)
Pentachlorophenol	ND	0.84	ug/L	09/27/13	DD	SW8270 (SIM)
Phenanthrene	ND	0.053	ug/L	09/27/13	DD	SW8270 (SIM)
Pyridine	ND	0.53	ug/L	09/27/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	116		%	09/27/13	DD	15 - 130 %
% 2-Fluorobiphenyl	96		%	09/27/13	DD	30 - 130 %
% 2-Fluorophenol	79		%	09/27/13	DD	15 - 130 %
% Nitrobenzene-d5	106		%	09/27/13	DD	30 - 130 %
% Phenol-d5	79		%	09/27/13	DD	15 - 130 %
% Terphenyl-d14	99		%	09/27/13	DD	30 - 130 %

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 04, 2013
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 04, 2013

FOR: Attn: Mr. Mike Gremillion
Galli Engineering, P.C.
734 Walt Whitman Rd
Suite 402A
Melville, NY 11747

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	MG	09/25/13	0:00
Location Code:	GALLI-ENG	Received by:	LB	09/26/13	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF45881
Phoenix ID: BF45884

Project ID: LARCHMONT
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	09/27/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Acetone	ND	25	ug/L	09/27/13	HM	SW8260	

Project ID: LARCHMONT
Client ID: TRIP BLANK

Phoenix I.D.: BF45884

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Acrylonitrile	ND	5.0	ug/L	09/27/13	HM	SW8260	
Benzene	ND	0.70	ug/L	09/27/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	09/27/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloroform	ND	1.0	ug/L	09/27/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	09/27/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	09/27/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	09/27/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	09/27/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	09/27/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Styrene	ND	1.0	ug/L	09/27/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Tetrachloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	09/27/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Total Xylenes	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	09/27/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	09/27/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	09/27/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	09/27/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	09/27/13	HM	70 - 130 %	
% Bromofluorobenzene	99		%	09/27/13	HM	70 - 130 %	
% Dibromofluoromethane	100		%	09/27/13	HM	70 - 130 %	
% Toluene-d8	101		%	09/27/13	HM	70 - 130 %	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

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

Comments:

TRIP BLANK INCLUDED

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 04, 2013
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 04, 2013

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 254750, QC Sample No: BF45219 (BF45881, BF45882, BF45883)												
Thallium (Dissolved)		<0.002	<0.005	NC	92.0	92.5	0.5	82.2	76.8	6.8	75 - 125	20
QA/QC Batch 254726, QC Sample No: BF45564 (BF45881, BF45882, BF45883)												
Thallium - Water	BRL	<0.002	<0.002	NC	110	112	1.8	94.1	96.2	2.2	75 - 125	20
QA/QC Batch 255024, QC Sample No: BF45613 (BF45881, BF45882, BF45883)												
ICP Metals - Aqueous												
Aluminum	BRL	<0.010	<0.010	NC	89.6	95.9	6.8	91.4	88.9	2.8	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	96.9	103	6.1	96.7	94.5	2.3	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	94.7	101	6.4	94.7	92.7	2.1	75 - 125	20
Barium	BRL	0.007	0.006	NC	93.4	99.6	6.4	93.9	90.9	3.2	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	94.5	100	5.7	94.4	91.7	2.9	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	97.8	104	6.1	97.9	95.2	2.8	75 - 125	20
Calcium	BRL	3.18	3.51	9.90	94.9	101	6.2	118	106	10.7	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	95.5	102	6.6	95.2	92.8	2.6	75 - 125	20
Cobalt	BRL	<0.002	<0.002	NC	95.9	102	6.2	95.8	93.4	2.5	75 - 125	20
Copper	BRL	<0.005	<0.005	NC	95.4	102	6.7	95.6	93.1	2.6	75 - 125	20
Iron	BRL	0.012	0.011	NC	93.4	99.8	6.6	92.7	90.6	2.3	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	97.3	103	5.7	96.9	94.9	2.1	75 - 125	20
Magnesium	BRL	0.84	0.92	9.10	97.6	103	5.4	102	97.3	4.7	75 - 125	20
Manganese	BRL	<0.001	<0.001	NC	93.9	99.7	6.0	93.8	91.0	3.0	75 - 125	20
Nickel	BRL	<0.001	<0.001	NC	97.4	104	6.6	97.0	94.8	2.3	75 - 125	20
Potassium	BRL	0.7	0.7	0	95.8	99.8	4.1	103	98.8	4.2	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	93.0	99.8	7.1	93.2	91.8	1.5	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	92.1	97.7	5.9	91.9	89.9	2.2	75 - 125	20
Sodium	BRL	12.6	13.2	4.70	95.9	101	5.2	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	93.3	99.4	6.3	93.1	90.6	2.7	75 - 125	20
Zinc	BRL	0.003	0.003	NC	98.5	105	6.4	98.7	95.9	2.9	75 - 125	20
QA/QC Batch 255078, QC Sample No: BF45702 (BF45881, BF45882, BF45883)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	100	87.1	13.8	80.9	82.8	2.3	70 - 130	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 255028, QC Sample No: BF46007 (BF45881, BF45882, BF45883)												
ICP Metals - Dissolved												
Aluminum	BRL	0.04	0.05	NC	91.1	93.7	2.8	96.5	98.1	1.6	75 - 125	20
Antimony	BRL	<0.005	<0.005	NC	99.2	101	1.8	98.2	99.8	1.6	75 - 125	20
Arsenic	BRL	<0.004	<0.004	NC	94.5	96.6	2.2	96.0	98.1	2.2	75 - 125	20
Barium	BRL	0.061	0.061	0	96.3	98.3	2.1	93.9	95.5	1.7	75 - 125	20
Beryllium	BRL	<0.001	<0.001	NC	94.8	96.5	1.8	91.8	92.7	1.0	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	96.8	98.1	1.3	93.5	93.6	0.1	75 - 125	20
Calcium	BRL	311	312	0.30	97.0	99.6	2.6	NC	NC	NC	75 - 125	20
Chromium	BRL	0.005	0.005	0	95.9	98.2	2.4	93.3	94.5	1.3	75 - 125	20
Cobalt	BRL	<0.001	<0.001	NC	96.5	98.8	2.4	93.5	94.4	1.0	75 - 125	20

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Copper	BRL	<0.005	<0.005	NC	98.3	101	2.7	102	103	1.0	75 - 125	20	
Iron	BRL	<0.011	<0.011	NC	96.2	98.8	2.7	92.0	94.8	3.0	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	96.5	98.5	2.1	93.4	95.2	1.9	75 - 125	20	
Magnesium	BRL	33.1	33.4	0.90	98.6	100	1.4	NC	NC	NC	75 - 125	20	
Manganese	BRL	2.31	2.33	0.90	96.3	97.8	1.5	92.6	95.3	2.9	75 - 125	20	
Nickel	BRL	0.005	0.004	NC	96.4	98.3	2.0	92.8	93.6	0.9	75 - 125	20	
Potassium	0.1	19.9	20.0	0.50	102	102	0.0	121	122	0.8	75 - 125	20	
Selenium	BRL	<0.011	<0.011	NC	89.1	91.5	2.7	91.4	94.3	3.1	75 - 125	20	
Silver	BRL	0.001	<0.001	NC	92.2	94.4	2.4	74.4	75.2	1.1	75 - 125	20	m
Sodium	0.55	333	335	0.60	125	124	0.8	NC	NC	NC	75 - 125	20	
Vanadium	BRL	<0.002	<0.002	NC	95.0	97.5	2.6	93.3	94.5	1.3	75 - 125	20	
Zinc	BRL	<0.002	<0.002	NC	98.0	100	2.0	97.7	99.1	1.4	75 - 125	20	

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

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NY # 11301

QA/QC Report

October 04, 2013

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 254359, QC Sample No: BF43711 (BF45881, BF45882, BF45883)

Polychlorinated Biphenyls - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1016	ND	97	90	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	84	78	7.4				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	86	60	67	11.0				30 - 150	20
% TCMX (Surrogate Rec)	86	89	87	2.3				30 - 150	20

Comment:

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

QA/QC Batch 254360, QC Sample No: BF43843 (BF45881, BF45882, BF45883)

Pesticides - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
4,4' -DDD	ND	137	139	1.4				40 - 140	20
4,4' -DDE	ND	113	115	1.8				40 - 140	20
4,4' -DDT	ND	125	128	2.4				40 - 140	20
a-BHC	ND	98	98	0.0				40 - 140	20
a-Chlordane	ND	104	104	0.0				40 - 140	20
Alachlor	ND	NA	NA	NC				40 - 140	20
Aldrin	ND	82	83	1.2				40 - 140	20
b-BHC	ND	96	96	0.0				40 - 140	20
Chlordane	ND	NA	NA	NC				40 - 140	20
d-BHC	ND	98	98	0.0				40 - 140	20
Dieldrin	ND	107	108	0.9				40 - 140	20
Endosulfan I	ND	102	102	0.0				40 - 140	20
Endosulfan II	ND	107	110	2.8				40 - 140	20
Endosulfan sulfate	ND	115	117	1.7				40 - 140	20
Endrin	ND	113	114	0.9				40 - 140	20
Endrin aldehyde	ND	132	135	2.2				40 - 140	20
Endrin ketone	ND	115	113	1.8				40 - 140	20
g-BHC	ND	99	100	1.0				40 - 140	20
g-Chlordane	ND	101	102	1.0				40 - 140	20
Heptachlor	ND	95	95	0.0				40 - 140	20
Heptachlor epoxide	ND	100	101	1.0				40 - 140	20
Methoxychlor	ND	125	124	0.8				40 - 140	20
Toxaphene	ND	NA	NA	NC				40 - 140	20
% DCBP	96	99	99	0.0				30 - 150	20
% TCMX	81	85	83	2.4				30 - 150	20

QA/QC Data

SDG I.D.: GBF45881

QA/QC Batch 255197, QC Sample No: BF45564 (BF45881, BF45883, BF45884)

Volatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	108	105	2.8	81	106	26.7	70 - 130	30	
1,1,1-Trichloroethane	ND	100	100	0.0	81	108	28.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	105	106	0.9	78	100	24.7	70 - 130	30	
1,1,2-Trichloroethane	ND	115	114	0.9	82	104	23.7	70 - 130	30	
1,1-Dichloroethane	ND	100	100	0.0	81	107	27.7	70 - 130	30	
1,1-Dichloroethene	ND	100	97	3.0	87	116	28.6	70 - 130	30	
1,1-Dichloropropene	ND	99	99	0.0	81	108	28.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	111	116	4.4	79	108	31.0	70 - 130	30	r
1,2,3-Trichloropropane	ND	104	103	1.0	78	101	25.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	107	110	2.8	78	107	31.4	70 - 130	30	r
1,2,4-Trimethylbenzene	ND	105	104	1.0	78	105	29.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	112	114	1.8	79	98	21.5	70 - 130	30	
1,2-Dibromoethane	ND	114	115	0.9	81	105	25.8	70 - 130	30	
1,2-Dichlorobenzene	ND	103	103	0.0	77	102	27.9	70 - 130	30	
1,2-Dichloroethane	ND	107	107	0.0	81	102	23.0	70 - 130	30	
1,2-Dichloropropane	ND	103	104	1.0	79	105	28.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	102	102	0.0	78	106	30.4	70 - 130	30	
1,3-Dichlorobenzene	ND	103	103	0.0	76	101	28.2	70 - 130	30	
1,3-Dichloropropane	ND	107	107	0.0	81	103	23.9	70 - 130	30	
1,4-Dichlorobenzene	ND	102	103	1.0	75	101	29.5	70 - 130	30	
2,2-Dichloropropane	ND	92	90	2.2	79	105	28.3	70 - 130	30	
2-Chlorotoluene	ND	103	102	1.0	76	104	31.1	70 - 130	30	r
2-Hexanone	ND	118	119	0.8	80	105	27.0	70 - 130	30	
2-Isopropyltoluene	ND	100	100	0.0	78	104	28.6	70 - 130	30	
4-Chlorotoluene	ND	101	100	1.0	76	102	29.2	70 - 130	30	
4-Methyl-2-pentanone	ND	115	117	1.7	82	102	21.7	70 - 130	30	
Acetone	ND	115	111	3.5	96	106	9.9	70 - 130	30	
Acrylonitrile	ND	104	107	2.8	80	97	19.2	70 - 130	30	
Benzene	ND	103	103	0.0	81	108	28.6	70 - 130	30	
Bromobenzene	ND	103	103	0.0	77	101	27.0	70 - 130	30	
Bromochloromethane	ND	105	106	0.9	79	103	26.4	70 - 130	30	
Bromodichloromethane	ND	106	107	0.9	81	107	27.7	70 - 130	30	
Bromoform	ND	108	110	1.8	83	106	24.3	70 - 130	30	
Bromomethane	ND	90	93	3.3	51	89	54.3	70 - 130	30	m,r
Carbon Disulfide	ND	95	95	0.0	77	104	29.8	70 - 130	30	
Carbon tetrachloride	ND	101	99	2.0	82	109	28.3	70 - 130	30	
Chlorobenzene	ND	103	102	1.0	79	104	27.3	70 - 130	30	
Chloroethane	ND	102	102	0.0	82	109	28.3	70 - 130	30	
Chloroform	ND	103	103	0.0	78	105	29.5	70 - 130	30	
Chloromethane	ND	90	89	1.1	63	87	32.0	70 - 130	30	m,r
cis-1,2-Dichloroethene	ND	107	107	0.0	81	108	28.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	105	107	1.9	81	107	27.7	70 - 130	30	
Dibromochloromethane	ND	108	109	0.9	79	104	27.3	70 - 130	30	
Dibromomethane	ND	106	108	1.9	81	102	23.0	70 - 130	30	
Dichlorodifluoromethane	ND	101	101	0.0	61	86	34.0	70 - 130	30	m,r
Ethylbenzene	ND	101	98	3.0	81	108	28.6	70 - 130	30	
Hexachlorobutadiene	ND	97	95	2.1	70	106	40.9	70 - 130	30	r
Isopropylbenzene	ND	104	103	1.0	77	107	32.6	70 - 130	30	r
m&p-Xylene	ND	105	102	2.9	81	109	29.5	70 - 130	30	
Methyl ethyl ketone	ND	102	104	1.9	85	100	16.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	106	107	0.9	78	102	26.7	70 - 130	30	
Methylene chloride	ND	101	102	1.0	79	103	26.4	70 - 130	30	
Naphthalene	ND	121	122	0.8	90	122	30.2	70 - 130	30	
n-Butylbenzene	ND	104	104	0.0	78	109	33.2	70 - 130	30	r
n-Propylbenzene	ND	104	102	1.9	76	105	32.0	70 - 130	30	r
o-Xylene	ND	104	103	1.0	80	105	27.0	70 - 130	30	
p-Isopropyltoluene	ND	102	102	0.0	80	109	30.7	70 - 130	30	r
sec-Butylbenzene	ND	101	100	1.0	79	108	31.0	70 - 130	30	r
Styrene	ND	104	103	1.0	82	107	26.5	70 - 130	30	
tert-Butylbenzene	ND	103	103	0.0	79	108	31.0	70 - 130	30	r
Tetrachloroethene	ND	99	98	1.0	81	108	28.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	107	111	3.7	80	98	20.2	70 - 130	30	
Toluene	ND	103	103	0.0	81	108	28.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	103	103	0.0	83	110	28.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	108	108	0.0	82	107	26.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	111	113	1.8	82	107	26.5	70 - 130	30	
Trichloroethene	ND	104	103	1.0	85	112	27.4	70 - 130	30	
Trichlorofluoromethane	ND	98	98	0.0	81	107	27.7	70 - 130	30	
Trichlorotrifluoroethane	ND	102	101	1.0	82	111	30.1	70 - 130	30	
Vinyl chloride	ND	101	99	2.0	73	98	29.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	102	102	0.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	100	102	100	2.0	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	101	104	102	1.9	104	101	2.9	70 - 130	30	
% Toluene-d8	101	100	100	0.0	101	101	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 255009, QC Sample No: BF45844 (BF45881, BF45882, BF45883)

Semivolatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	65	63	3.1				30 - 130	20	
1,2,4-Trichlorobenzene	ND	59	61	3.3				30 - 130	20	
1,2-Dichlorobenzene	ND	55	58	5.3				30 - 130	20	
1,2-Diphenylhydrazine	ND	67	60	11.0				30 - 130	20	
1,3-Dichlorobenzene	ND	56	58	3.5				30 - 130	20	
1,4-Dichlorobenzene	ND	59	59	0.0				30 - 130	20	
2,4,5-Trichlorophenol	ND	73	69	5.6				30 - 130	20	
2,4,6-Trichlorophenol	ND	70	71	1.4				30 - 130	20	
2,4-Dichlorophenol	ND	66	64	3.1				30 - 130	20	
2,4-Dimethylphenol	ND	35	37	5.6				30 - 130	20	
2,4-Dinitrophenol	ND	88	68	25.6				30 - 130	20	r
2,4-Dinitrotoluene	ND	77	71	8.1				30 - 130	20	
2,6-Dinitrotoluene	ND	77	71	8.1				30 - 130	20	
2-Chloronaphthalene	ND	66	67	1.5				30 - 130	20	
2-Chlorophenol	ND	55	57	3.6				30 - 130	20	
2-Methylnaphthalene	ND	64	63	1.6				30 - 130	20	
2-Methylphenol (o-cresol)	ND	54	57	5.4				30 - 130	20	
2-Nitroaniline	ND	92	89	3.3				30 - 130	20	
2-Nitrophenol	ND	55	57	3.6				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	56	57	1.8				30 - 130	20	
3,3'-Dichlorobenzidine	ND	100	94	6.2				30 - 130	20	
3-Nitroaniline	ND	81	76	6.4				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	86	78	9.8				30 - 130	20	
4-Bromophenyl phenyl ether	ND	56	55	1.8				30 - 130	20	

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chloro-3-methylphenol	ND	66	64	3.1				30 - 130	20	
4-Chloroaniline	ND	43	44	2.3				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	68	63	7.6				30 - 130	20	
4-Nitroaniline	ND	62	62	0.0				30 - 130	20	
4-Nitrophenol	ND	76	69	9.7				15 - 130	20	
Acenaphthene	ND	68	66	3.0				30 - 130	20	
Acenaphthylene	ND	69	67	2.9				30 - 130	20	
Acetophenone	ND	61	64	4.8				30 - 130	20	
Aniline	ND	37	40	7.8				30 - 130	20	
Anthracene	ND	70	70	0.0				30 - 130	20	
Benz(a)anthracene	ND	71	70	1.4				30 - 130	20	
Benzidine	ND	21	28	28.6				30 - 130	20	l,r
Benzo(a)pyrene	ND	64	66	3.1				30 - 130	20	
Benzo(b)fluoranthene	ND	69	71	2.9				30 - 130	20	
Benzo(ghi)perylene	ND	83	76	8.8				30 - 130	20	
Benzo(k)fluoranthene	ND	69	73	5.6				30 - 130	20	
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20	
Benzyl butyl phthalate	ND	76	80	5.1				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	59	60	1.7				30 - 130	20	
Bis(2-chloroethyl)ether	ND	50	53	5.8				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	52	55	5.6				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	74	76	2.7				30 - 130	20	
Carbazole	ND	79	86	8.5				30 - 130	20	
Chrysene	ND	76	73	4.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	87	76	13.5				30 - 130	20	
Dibenzofuran	ND	67	63	6.2				30 - 130	20	
Diethyl phthalate	ND	71	66	7.3				30 - 130	20	
Dimethylphthalate	ND	66	66	0.0				30 - 130	20	
Di-n-butylphthalate	ND	71	82	14.4				30 - 130	20	
Di-n-octylphthalate	ND	71	66	7.3				30 - 130	20	
Fluoranthene	ND	72	83	14.2				30 - 130	20	
Fluorene	ND	70	65	7.4				30 - 130	20	
Hexachlorobenzene	ND	66	68	3.0				30 - 130	20	
Hexachlorobutadiene	ND	59	61	3.3				30 - 130	20	
Hexachlorocyclopentadiene	ND	63	55	13.6				30 - 130	20	
Hexachloroethane	ND	55	58	5.3				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	83	75	10.1				30 - 130	20	
Isophorone	ND	63	64	1.6				30 - 130	20	
Naphthalene	ND	61	63	3.2				30 - 130	20	
Nitrobenzene	ND	55	58	5.3				30 - 130	20	
N-Nitrosodimethylamine	ND	42	47	11.2				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	56	57	1.8				30 - 130	20	
N-Nitrosodiphenylamine	ND	71	67	5.8				30 - 130	20	
Pentachloronitrobenzene	ND	71	72	1.4				30 - 130	20	
Pentachlorophenol	ND	122	117	4.2				30 - 130	20	
Phenanthrene	ND	74	72	2.7				30 - 130	20	
Phenol	ND	48	51	6.1				15 - 130	20	
Pyrene	ND	66	83	22.8				30 - 130	20	r
Pyridine	ND	18	18	0.0				30 - 130	20	l
% 2,4,6-Tribromophenol	89	70	72	2.8				15 - 130	20	
% 2-Fluorobiphenyl	88	60	63	4.9				30 - 130	20	
% 2-Fluorophenol	80	48	48	0.0				15 - 130	20	
% Nitrobenzene-d5	129	54	58	7.1				30 - 130	20	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Phenol-d5	88	52	52	0.0				15 - 130	20	
% Terphenyl-d14	115	73	95	26.2				30 - 130	20	r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 255621, QC Sample No: BF46455 (BF45882)

Volatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	105	106	0.9				70 - 130	30
1,1,1-Trichloroethane	ND	92	96	4.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	100	101	1.0				70 - 130	30
1,1,2-Trichloroethane	ND	112	114	1.8				70 - 130	30
1,1-Dichloroethane	ND	95	100	5.1				70 - 130	30
1,1-Dichloroethene	ND	91	93	2.2				70 - 130	30
1,1-Dichloropropene	ND	90	94	4.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	112	115	2.6				70 - 130	30
1,2,3-Trichloropropane	ND	101	102	1.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	105	108	2.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	90	94	4.3				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	116	117	0.9				70 - 130	30
1,2-Dibromoethane	ND	111	112	0.9				70 - 130	30
1,2-Dichlorobenzene	ND	94	97	3.1				70 - 130	30
1,2-Dichloroethane	ND	105	108	2.8				70 - 130	30
1,2-Dichloropropane	ND	102	105	2.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	89	92	3.3				70 - 130	30
1,3-Dichlorobenzene	ND	94	96	2.1				70 - 130	30
1,3-Dichloropropane	ND	105	106	0.9				70 - 130	30
1,4-Dichlorobenzene	ND	97	101	4.0				70 - 130	30
2,2-Dichloropropane	ND	84	87	3.5				70 - 130	30
2-Chlorotoluene	ND	89	92	3.3				70 - 130	30
2-Hexanone	ND	122	120	1.7				70 - 130	30
2-Isopropyltoluene	ND	90	91	1.1				70 - 130	30
4-Chlorotoluene	ND	88	93	5.5				70 - 130	30
4-Methyl-2-pentanone	ND	121	123	1.6				70 - 130	30
Acetone	ND	97	113	15.2				70 - 130	30
Acrylonitrile	ND	118	119	0.8				70 - 130	30
Benzene	ND	94	98	4.2				70 - 130	30
Bromobenzene	ND	93	96	3.2				70 - 130	30
Bromochloromethane	ND	102	105	2.9				70 - 130	30
Bromodichloromethane	ND	105	108	2.8				70 - 130	30
Bromoform	ND	115	116	0.9				70 - 130	30
Bromomethane	ND	97	102	5.0				70 - 130	30
Carbon Disulfide	ND	86	90	4.5				70 - 130	30
Carbon tetrachloride	ND	89	95	6.5				70 - 130	30
Chlorobenzene	ND	97	100	3.0				70 - 130	30
Chloroethane	ND	95	97	2.1				70 - 130	30
Chloroform	ND	98	103	5.0				70 - 130	30
Chloromethane	ND	101	106	4.8				70 - 130	30
cis-1,2-Dichloroethene	ND	100	105	4.9				70 - 130	30
cis-1,3-Dichloropropene	ND	104	107	2.8				70 - 130	30
Dibromochloromethane	ND	110	112	1.8				70 - 130	30
Dibromomethane	ND	105	109	3.7				70 - 130	30
Dichlorodifluoromethane	ND	97	104	7.0				70 - 130	30

QA/QC Data

SDG I.D.: GBF45881

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	92	95	3.2				70 - 130	30
Hexachlorobutadiene	ND	88	91	3.4				70 - 130	30
Isopropylbenzene	ND	87	90	3.4				70 - 130	30
m&p-Xylene	ND	95	99	4.1				70 - 130	30
Methyl ethyl ketone	ND	109	114	4.5				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	101	102	1.0				70 - 130	30
Methylene chloride	ND	95	98	3.1				70 - 130	30
Naphthalene	ND	112	114	1.8				70 - 130	30
n-Butylbenzene	ND	92	95	3.2				70 - 130	30
n-Propylbenzene	ND	88	91	3.4				70 - 130	30
o-Xylene	ND	96	99	3.1				70 - 130	30
p-Isopropyltoluene	ND	89	92	3.3				70 - 130	30
sec-Butylbenzene	ND	85	90	5.7				70 - 130	30
Styrene	ND	100	104	3.9				70 - 130	30
tert-Butylbenzene	ND	88	91	3.4				70 - 130	30
Tetrachloroethene	ND	91	94	3.2				70 - 130	30
Tetrahydrofuran (THF)	ND	114	115	0.9				70 - 130	30
Toluene	ND	95	99	4.1				70 - 130	30
trans-1,2-Dichloroethene	ND	93	95	2.1				70 - 130	30
trans-1,3-Dichloropropene	ND	108	110	1.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	113	115	1.8				70 - 130	30
Trichloroethene	ND	94	100	6.2				70 - 130	30
Trichlorofluoromethane	ND	92	96	4.3				70 - 130	30
Trichlorotrifluoroethane	ND	90	96	6.5				70 - 130	30
Vinyl chloride	ND	98	104	5.9				70 - 130	30
% 1,2-dichlorobenzene-d4	97	98	98	0.0				70 - 130	30
% Bromofluorobenzene	99	104	104	0.0				70 - 130	30
% Dibromofluoromethane	103	104	104	0.0				70 - 130	30
% Toluene-d8	99	99	101	2.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

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
October 04, 2013

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

Requested Criteria: GW

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45881	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45881	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45881	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF45881	$8260GWR	Tetrachloroethene	NY / TAGM - Volatile Organics / Groundwater Standards	23	1.0	5	5	ug/L
BF45881	$8260GWR	Tetrachloroethene	NY / TOGS - Water Quality / GA Criteria	23	1.0	5	5	ug/L
BF45881	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45881	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45881	$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF45881	$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF45881	$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF45881	$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF45881	$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45881	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BF45881	$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BF45881	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BF45881	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BF45881	$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45881	$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BF45881	$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45881	$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45881	$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45881	$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45881	$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

Requested Criteria: GW

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45881	$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45881	$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BF45881	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.040	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.040	0.002	0.002	ug/L
BF45881	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45881	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45881	$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.65	0.33	0.1	0.1	ug/L
BF45881	$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	0.65	0.33	0.05	0.05	ug/L
BF45881	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.28	0.06	0.06	ug/L
BF45881	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	149	0.10	0.1	0.1	mg/L
BF45881	BA-WM	Barium	NY / TOGS - Water Quality / GA Criteria	1.40	0.002	1	1	mg/L
BF45881	BE-WM	Beryllium	NY / TOGS - Water Quality / GA Criteria	0.005	0.001	0.003	0.003	mg/L
BF45881	CD-WM	Cadmium	NY / TOGS - Water Quality / GA Criteria	0.011	0.001	0.005	0.005	mg/L
BF45881	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.401	0.001	0.05	0.05	mg/L
BF45881	CU-WM	Copper	NY / TOGS - Water Quality / GA Criteria	0.740	0.005	0.2	0.2	mg/L
BF45881	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.31	0.01	0.1	0.1	mg/L
BF45881	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.332	0.011	0.3	0.3	mg/L
BF45881	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3.56	0.011	0.3	0.3	mg/L
BF45881	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	135	1.1	20	20	mg/L
BF45881	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45881	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BF45881	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45881	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	385	0.10	0.3	0.3	mg/L
BF45881	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	67.8	0.01	35	35	mg/L
BF45881	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	10.9	0.010	0.3	0.3	mg/L
BF45881	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	110	0.1	20	20	mg/L
BF45881	NI-WM	Nickel	NY / TOGS - Water Quality / GA Criteria	0.325	0.001	0.1	0.1	mg/L
BF45881	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.114	0.002	0.025	0.025	mg/L
BF45881	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45881	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45882	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45882	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45882	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF45882	$8260GWR	Ethylbenzene	NY / TAGM - Volatile Organics / Groundwater Standards	5.8	1.0	5	5	ug/L

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45882	$8260GWR	Ethylbenzene	NY / TOGS - Water Quality / GA Criteria	5.8	1.0	5	5	ug/L
BF45882	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45882	$8260GWR	n-Propylbenzene	NY / TOGS - Water Quality / GA Criteria	6.5	1.0	5	5	ug/L
BF45882	$8260GWR	1,3,5-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	5.8	1.0	5	5	ug/L
BF45882	$8260GWR	1,2,4-Trimethylbenzene	NY / TOGS - Water Quality / GA Criteria	9.2	1.0	5	5	ug/L
BF45882	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45882	$8260GWR	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	29	1.0	5	5	ug/L
BF45882	$8260GWR	Naphthalene	NY / TOGS - Water Quality / GA Criteria	29	1.0	10	10	ug/L
BF45882	$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.0	1	1	ug/L
BF45882	$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF45882	$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.0	1	1	ug/L
BF45882	$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.0	0.4	0.4	ug/L
BF45882	$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	5	5	ug/L
BF45882	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	Naphthalene	NY / TAGM - Volatile Organics / Groundwater Standards	8.8	5.0	5	5	ug/L
BF45882	$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BF45882	$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BF45882	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	20	5	5	ug/L
BF45882	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	20	1	1	ug/L
BF45882	$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	10	1	1	ug/L
BF45882	$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	20	5	5	ug/L
BF45882	$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45882	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45882	$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L

Sample Criteria Exceedences Report

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SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45882	$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	50	1	1	ug/L
BF45882	$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45882	$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	50	5	5	ug/L
BF45882	$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.060	0.04	0.04	ug/L
BF45882	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.07	0.040	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.07	0.040	0.002	0.002	ug/L
BF45882	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.06	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.06	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.050	0.002	0.002	ug/L
BF45882	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.002	0.002	ug/L
BF45882	$PEST_GAWR	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.015	0.01	0.01	ug/L
BF45882	$PEST_GAWR	a-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.05	0.05	ug/L
BF45882	$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.25	0.01	0.01	ug/L
BF45882	$PEST_GAWR	b-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.050	0.04	0.04	ug/L
BF45882	$PEST_GAWR	d-BHC	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.05	0.05	ug/L
BF45882	$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND*	0.25	0.04	0.04	ug/L
BF45882	$PEST_GAWR	g-BHC (Lindane)	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.05	0.05	ug/L
BF45882	$PEST_GAWR	g-BHC (Lindane)	NY / TOGS - Water Quality / GA Criteria	ND*	0.25	0.05	0.05	ug/L
BF45882	$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.29	0.20	0.1	0.1	ug/L
BF45882	$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	0.29	0.20	0.05	0.05	ug/L
BF45882	$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.01	0.01	ug/L
BF45882	$PEST_GAWR	4,4' -DDD	NY / TOGS - Water Quality / GA Criteria	ND*	0.50	0.3	0.3	ug/L
BF45882	$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.01	0.01	ug/L
BF45882	$PEST_GAWR	4,4' -DDE	NY / TOGS - Water Quality / GA Criteria	ND*	0.50	0.2	0.2	ug/L
BF45882	$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.01	0.01	ug/L
BF45882	$PEST_GAWR	4,4' -DDT	NY / TOGS - Water Quality / GA Criteria	ND*	0.50	0.2	0.2	ug/L
BF45882	$PEST_GAWR	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.015	0.01	0.01	ug/L
BF45882	$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND*	0.015	0.004	0.004	ug/L
BF45882	$PEST_GAWR	Endosulfan I	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.1	0.1	ug/L
BF45882	$PEST_GAWR	Endosulfan II	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.1	0.1	ug/L
BF45882	$PEST_GAWR	Endosulfan Sulfate	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.1	0.1	ug/L
BF45882	$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.50	0.01	0.01	ug/L
BF45882	$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.01	0.01	ug/L
BF45882	$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND*	0.25	0.04	0.04	ug/L
BF45882	$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND*	0.25	0.01	0.01	ug/L
BF45882	$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND*	0.25	0.03	0.03	ug/L
BF45882	$PEST_GAWR	Alachlor	NY / TOGS - Water Quality / GA Criteria	ND*	0.75	0.5	0.5	ug/L

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45882	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND*	10	0.06	0.06	ug/L
BF45882	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	166	0.10	0.1	0.1	mg/L
BF45882	BA-WM	Barium	NY / TOGS - Water Quality / GA Criteria	2.90	0.002	1	1	mg/L
BF45882	BE-WM	Beryllium	NY / TOGS - Water Quality / GA Criteria	0.009	0.001	0.003	0.003	mg/L
BF45882	CD-WM	Cadmium	NY / TOGS - Water Quality / GA Criteria	0.013	0.001	0.005	0.005	mg/L
BF45882	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.471	0.001	0.05	0.05	mg/L
BF45882	CU-WM	Copper	NY / TOGS - Water Quality / GA Criteria	0.912	0.005	0.2	0.2	mg/L
BF45882	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.09	0.01	0.1	0.1	mg/L
BF45882	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	3.20	0.011	0.3	0.3	mg/L
BF45882	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.435	0.001	0.3	0.3	mg/L
BF45882	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	191	1.1	20	20	mg/L
BF45882	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45882	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BF45882	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45882	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	428	0.10	0.3	0.3	mg/L
BF45882	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	115	0.10	35	35	mg/L
BF45882	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	32.7	0.10	0.3	0.3	mg/L
BF45882	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	154	0.1	20	20	mg/L
BF45882	NI-WM	Nickel	NY / TOGS - Water Quality / GA Criteria	0.586	0.001	0.1	0.1	mg/L
BF45882	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.090	0.002	0.025	0.025	mg/L
BF45882	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45882	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45883	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45883	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45883	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF45883	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45883	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45883	$8270-SIMFSR	Phenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.3	1	1	ug/L
BF45883	$8270-SIMFSR	Phenol	NY / TOGS - Water Quality / GA Criteria	ND	5.3	1	1	ug/L
BF45883	$8270-SIMFSR	Bis(2-chloroethyl)ether	NY / TOGS - Water Quality / GA Criteria	ND	5.3	1	1	ug/L
BF45883	$8270-SIMFSR	Aniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	11	5	5	ug/L
BF45883	$8270-SIMFSR	Aniline	NY / TOGS - Water Quality / GA Criteria	ND	11	5	5	ug/L
BF45883	$8270-SIMFSR	2-Chlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	11	5	5	ug/L
BF45883	$8270-SIMFSR	2-Methylphenol (o-cresol)	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	Nitrobenzene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	Nitrobenzene	NY / TOGS - Water Quality / GA Criteria	ND	5.3	0.4	0.4	ug/L
BF45883	$8270-SIMFSR	2-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	11	5	5	ug/L
BF45883	$8270-SIMFSR	2-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2,4-Dimethylphenol	NY / TOGS - Water Quality / GA Criteria	ND	11	5	5	ug/L

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45883	$8270-SIMFSR	Bis(2-chloroethoxy)methane	NY / TOGS - Water Quality / GA Criteria	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	Benzoic acid	NY / TAGM - Volatile Organics / Groundwater Standards	ND	53	50	50	ug/L
BF45883	$8270-SIMFSR	2,4-Dichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	5	5	ug/L
BF45883	$8270-SIMFSR	2,4-Dichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	4-Chloroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	21	5	5	ug/L
BF45883	$8270-SIMFSR	4-Chloroaniline	NY / TOGS - Water Quality / GA Criteria	ND	21	5	5	ug/L
BF45883	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	21	5	5	ug/L
BF45883	$8270-SIMFSR	4-Chloro-3-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	21	1	1	ug/L
BF45883	$8270-SIMFSR	Hexachlorocyclopentadiene	NY / TOGS - Water Quality / GA Criteria	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	2,4,6-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	2,4,5-Trichlorophenol	NY / TOGS - Water Quality / GA Criteria	ND	11	1	1	ug/L
BF45883	$8270-SIMFSR	4-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	21	5	5	ug/L
BF45883	$8270-SIMFSR	2,6-Dinitrotoluene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	2,6-Dinitrotoluene	NY / TOGS - Water Quality / GA Criteria	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	3-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	3-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	2,4-Dinitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	53	1	1	ug/L
BF45883	$8270-SIMFSR	2,4-Dinitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	Dibenzofuran	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	2,4-Dinitrotoluene	NY / TOGS - Water Quality / GA Criteria	ND	5.3	5	5	ug/L
BF45883	$8270-SIMFSR	4-Nitrophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	4-Nitrophenol	NY / TOGS - Water Quality / GA Criteria	ND	53	1	1	ug/L
BF45883	$8270-SIMFSR	2-Nitroaniline	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	2-Nitroaniline	NY / TOGS - Water Quality / GA Criteria	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	4,6-Dinitro-2-methylphenol	NY / TOGS - Water Quality / GA Criteria	ND	53	1	1	ug/L
BF45883	$8270-SIMFSR	Benzidine	NY / TOGS - Water Quality / GA Criteria	ND	53	5	5	ug/L
BF45883	$8270-SIMFSR	3,3'-Dichlorobenzidine	NY / TOGS - Water Quality / GA Criteria	ND	53	5	5	ug/L
BF45883	$8270-SIMR	Hexachlorobenzene	NY / TOGS - Water Quality / GA Criteria	ND	0.063	0.04	0.04	ug/L
BF45883	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.042	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.042	0.002	0.002	ug/L
BF45883	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.053	0.002	0.002	ug/L
BF45883	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.053	0.002	0.002	ug/L

Sample Criteria Exceedences Report

GBF45881 - GALLI-ENG

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF45883	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	0.25	0.06	0.06	ug/L
BF45883	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	14.3	0.010	0.1	0.1	mg/L
BF45883	CR-WM	Chromium	NY / TOGS - Water Quality / GA Criteria	0.054	0.001	0.05	0.05	mg/L
BF45883	D-AL	Aluminum (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.71	0.01	0.1	0.1	mg/L
BF45883	D-FE	Iron (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.945	0.011	0.3	0.3	mg/L
BF45883	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	2.21	0.011	0.3	0.3	mg/L
BF45883	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	65.9	1.1	20	20	mg/L
BF45883	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45883	D-SE	Selenium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.011	0.01	0.01	mg/L
BF45883	D-TL	Thallium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45883	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	23.0	0.010	0.3	0.3	mg/L
BF45883	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	2.14	0.010	0.3	0.3	mg/L
BF45883	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	73.7	0.1	20	20	mg/L
BF45883	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	BRL	0.005	0.003	0.003	mg/L
BF45883	TL-WM	Thallium	NY / TOGS - Water Quality / GA Criteria	BRL	0.002	0.0005	0.0005	mg/L
BF45884	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45884	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	0.50	0.4	0.4	ug/L
BF45884	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BF45884	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BF45884	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

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

October 04, 2013

SDG I.D.: GBF45881

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

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

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

Temp 4°C Pg 1 of 1 4WG+TB

Data Delivery:
☐ Fax #:
☐ Email: MGREMILLION@GALLIENG.COM

Customer:	GALLI ENG	Project:	LARCHMONT
Address:		Report to:	M. GREMILLION
	MELVILLE, NY	Invoice to:	L. LASANTA
		Project P.O:	
		Phone #:	
		Fax #:	

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 9/25/13

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

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260	8270	METALS TAL	METALS TAL (DISSOLVED)	PCBS	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [X] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [/] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle	
45881	TW B-10	GW	9/25	9:30	X	X	X	X	X				3	2	1		1			7
45882	TW B-6	↓	↓	9:45	X	X	X	X	X				3	2	1		1			7
45883	TW B-8	↓	↓	11:30	X	X	X	X	X				3	2	1		1			7
45884	TRIP BLANK	W		—	X								2							2

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	9-26-13	10:10
[signature]	[signature]	9-26-13	16:02

Comments, Special Requirements or Regulations:
IF THERE IS ENOUGH SAMPLE, ANALYZE FOR HERBACIDES AND PESTICIDES.

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

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

NY
☒ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

State where samples were collected: NY

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

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